

Government Gazette
Staatskoerant

REPUBLIC OF SOUTH AFRICA
REPUBLIEK VAN SUID AFRIKA

Vol. 688 21 October / Oktober 2022 No. 47337

PART 1 OF 2

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ISSN 1682-5845



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government printing
Department:
Government Printing Works
REPUBLIC OF SOUTH AFRICA

HIGH ALERT: SCAM WARNING!!!

TO ALL SUPPLIERS AND SERVICE PROVIDERS OF THE GOVERNMENT PRINTING WORKS

It has come to the attention of the *GOVERNMENT PRINTING WORKS* that there are certain unscrupulous companies and individuals who are defrauding unsuspecting businesses disguised as representatives of the *Government Printing Works* (*GPW*).

The scam involves the fraudsters using the letterhead of *GPW* to send out fake tender bids to companies and requests to supply equipment and goods.

Although the contact person's name on the letter may be of an existing official, the contact details on the letter are not the same as the *Government Printing Works*'. When searching on the Internet for the address of the company that has sent the fake tender document, the address does not exist.

The banking details are in a private name and not company name. Government will never ask you to deposit any funds for any business transaction. *GPW* has alerted the relevant law enforcement authorities to investigate this scam to protect legitimate businesses as well as the name of the organisation.

Example of e-mails these fraudsters are using:

PROCUREMENT@GPW-GOV.ORG

Should you suspect that you are a victim of a scam, you must urgently contact the police and inform the *GPW*.

GPW has an official email with the domain as **@gpw.gov.za**

Government e-mails DO NOT have org in their e-mail addresses. All of these fraudsters also use the same or very similar telephone numbers. Although such number with an area code 012 looks like a landline, it is not fixed to any property.

GPW will never send you an e-mail asking you to supply equipment and goods without a purchase/order number. *GPW* does not procure goods for another level of Government. The organisation will not be liable for actions that result in companies or individuals being resultant victims of such a scam.

Government Printing Works gives businesses the opportunity to supply goods and services through RFQ / Tendering process. In order to be eligible to bid to provide goods and services, suppliers must be registered on the National Treasury's Central Supplier Database (CSD). To be registered, they must meet all current legislative requirements (e.g. have a valid tax clearance certificate and be in good standing with the South African Revenue Services - SARS).

The tender process is managed through the Supply Chain Management (SCM) system of the department. SCM is highly regulated to minimise the risk of fraud, and to meet objectives which include value for money, open and effective competition, equitability, accountability, fair dealing, transparency and an ethical approach. Relevant legislation, regulations, policies, guidelines and instructions can be found on the tender's website.

Fake Tenders

National Treasury's CSD has launched the Government Order Scam campaign to combat fraudulent requests for quotes (RFQs). Such fraudulent requests have resulted in innocent companies losing money. We work hard at preventing and fighting fraud, but criminal activity is always a risk.

How tender scams work

There are many types of tender scams. Here are some of the more frequent scenarios:

Fraudsters use what appears to be government department stationery with fictitious logos and contact details to send a fake RFQ to a company to invite it to urgently supply goods. Shortly after the company has submitted its quote, it receives notification that it has won the tender. The company delivers the goods to someone who poses as an official or at a fake site. The Department has no idea of this transaction made in its name. The company is then never paid and suffers a loss.

OR

Fraudsters use what appears to be government department stationery with fictitious logos and contact details to send a fake RFQ to Company A to invite it to urgently supply goods. Typically, the tender specification is so unique that only Company B (a fictitious company created by the fraudster) can supply the goods in question.

Shortly after Company A has submitted its quote it receives notification that it has won the tender. Company A orders the goods and pays a deposit to the fictitious Company B. Once Company B receives the money, it disappears. Company A's money is stolen in the process.

Protect yourself from being scammed

- If you are registered on the supplier databases and you receive a request to tender or quote that seems to be from a government department, contact the department to confirm that the request is legitimate. Do not use the contact details on the tender document as these might be fraudulent.
- Compare tender details with those that appear in the Tender Bulletin, available online at **www.gpwonline.co.za**
- Make sure you familiarise yourself with how government procures goods and services. Visit the tender website for more information on how to tender.
- If you are uncomfortable about the request received, consider visiting the government department and/or the place of delivery and/or the service provider from whom you will be sourcing the goods.
- In the unlikely event that you are asked for a deposit to make a bid, contact the SCM unit of the department in question to ask whether this is in fact correct.

Any incidents of corruption, fraud, theft and misuse of government property in the *Government Printing Works* can be reported to:

Supply Chain Management: Ms. Anna Marie Du Toit, Tel. (012) 748 6292.
Email: **Annamarie.DuToit@gpw.gov.za**

Marketing and Stakeholder Relations: Ms Bonakele Mbhele, at Tel. (012) 748 6193.
Email: **Bonakele.Mbhele@gpw.gov.za**

Security Services: Mr Daniel Legoabe, at tel. (012) 748 6176.
Email: **Daniel.Legoabe@gpw.gov.za**

Closing times for **ORDINARY WEEKLY** *REGULATION GAZETTE* 2022

*The closing time is **15:00** sharp on the following days:*

- **31 December 2021,** Friday for the issue of Friday **07 January 2022**
- **07 January,** Friday for the issue of Friday **14 January 2022**
- **14 January,** Friday for the issue of Friday **21 January 2022**
- **21 January,** Friday for the issue of Friday **28 January 2022**
- **28 January,** Friday for the issue of Friday **04 February 2022**
- **04 February,** Friday for the issue of Friday **11 February 2022**
- **11 February,** Friday for the issue of Friday **18 February 2022**
- **18 February,** Friday for the issue of Friday **25 February 2022**
- **25 February,** Friday for the issue of Friday **04 March 2022**
- **04 March,** Friday for the issue of Friday **11 March 2022**
- **11 March,** Friday for the issue of Friday **18 March 2022**
- **17 March,** Thursday for the issue of Friday **25 March 2022**
- **25 March,** Friday for the issue of Friday **01 April 2022**
- **01 April,** Friday for the issue of Friday **08 April 2022**
- **07 April,** Thursday for the issue of Thursday **14 April 2022**
- **13 April,** Wednesday for the issue of Friday **22 April 2022**
- **21 April,** Thursday for the issue of Friday **29 April 2022**
- **28 April,** Thursday for the issue of Friday **06 May 2022**
- **06 May,** Friday for the issue of Friday **13 May 2022**
- **13 May,** Friday for the issue of Friday **20 May 2022**
- **20 May,** Friday for the issue of Friday **27 May 2022**
- **27 May,** Friday for the issue of Friday **03 June 2022**
- **03 June,** Friday for the issue of Friday **10 June 2022**
- **09 June,** Thursday for the issue of Friday **17 June 2022**
- **17 June,** Friday for the issue of Friday **24 June 2022**
- **24 June,** Friday for the issue of Friday **01 July 2022**
- **01 July,** Friday for the issue of Friday **08 July 2022**
- **08 July,** Friday for the issue of Friday **15 July 2022**
- **15 July,** Friday for the issue of Friday **22 July 2022**
- **22 July,** Friday for the issue of Friday **29 July 2022**
- **29 July,** Friday for the issue of Friday **05 August 2022**
- **04 August,** Thursday for the issue of Friday **12 August 2022**
- **12 August,** Friday for the issue of Friday **19 August 2022**
- **19 August,** Friday for the issue of Friday **26 August 2022**
- **26 August,** Friday for the issue of Friday **02 September 2022**
- **02 September,** Friday for the issue of Friday **09 September 2022**
- **09 September,** Friday for the issue of Friday **16 September 2022**
- **16 September,** Friday for the issue of Friday **23 September 2022**
- **23 September,** Friday for the issue of Friday **30 September 2022**
- **30 September,** Friday for the issue of Friday **07 October 2022**
- **07 October,** Friday for the issue of Friday **14 October 2022**
- **14 October,** Friday for the issue of Friday **21 October 2022**
- **21 October,** Friday for the issue of Friday **28 October 2022**
- **28 October,** Friday for the issue of Friday **04 November 2022**
- **04 November,** Friday for the issue of Friday **11 November 2022**
- **11 November,** Friday for the issue of Friday **18 November 2022**
- **18 November,** Friday for the issue of Friday **25 November 2022**
- **25 November,** Friday for the issue of Friday **02 December 2022**
- **02 December,** Friday for the issue of Friday **09 December 2022**
- **08 December,** Thursday for the issue of Thursday **15 December 2022**
- **15 December,** Thursday for the issue of Friday **23 December 2022**
- **22 December,** Thursday for the issue of Friday **30 December 2022**

LIST OF TARIFF RATES

FOR PUBLICATION OF NOTICES

COMMENCEMENT: 1 APRIL 2018

NATIONAL AND PROVINCIAL

Notice sizes for National, Provincial & Tender gazettes 1/4, 2/4, 3/4, 4/4 per page. Notices submitted will be charged at R1008.80 per full page, pro-rated based on the above categories.

Pricing for National, Provincial - Variable Priced Notices		
Notice Type	**Page Space**	**New Price (R)**
Ordinary National, Provincial	1/4 - Quarter Page	252.20
Ordinary National, Provincial	2/4 - Half Page	504.40
Ordinary National, Provincial	3/4 - Three Quarter Page	756.60
Ordinary National, Provincial	4/4 - Full Page	1008.80

EXTRA-ORDINARY

All Extra-ordinary National and Provincial gazette notices are non-standard notices and attract a variable price based on the number of pages submitted.

The pricing structure for National and Provincial notices which are submitted as **Extra ordinary submissions** will be charged at R**3026.32** per page.

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GOVERNMENT PRINTING WORKS - BUSINESS RULES

The **Government Printing Works** (**GPW**) has established rules for submitting notices in line with its electronic notice processing system, which requires the use of electronic *Adobe* Forms. Please ensure that you adhere to these guidelines when completing and submitting your notice submission.

Closing Times for Acceptance of Notices

1. The *Government Gazette* and *Government Tender Bulletin* are weekly publications that are published on Fridays and the closing time for the acceptance of notices is strictly applied according to the scheduled time for each gazette.

2. Please refer to the Submission Notice Deadline schedule in the table below. This schedule is also published online on the Government Printing works website www.gpwonline.co.za

   All re-submissions will be subject to the standard cut-off times.
   All notices received after the closing time will be rejected.

Government Gazette Type	Publication Frequency	Publication Date	Submission Deadline	Cancellations Deadline
National Gazette	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Regulation Gazette	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Petrol Price Gazette	Monthly	Tuesday before 1st Wednesday of the month	One day before publication	1 working day prior to publication
Road Carrier Permits	Weekly	Friday	Thursday 15h00 for next Friday	3 working days prior to publication
Unclaimed Monies (Justice, Labour or Lawyers)	January / September 2 per year	Last Friday	One week before publication	3 working days prior to publication
Parliament (Acts, White Paper, Green Paper)	As required	Any day of the week	None	3 working days prior to publication
Manuals	Bi- Monthly	2nd and last Thursday of the month	One week before publication	3 working days prior to publication
State of Budget (National Treasury)	Monthly	30th or last Friday of the month	One week before publication	3 working days prior to publication
Extraordinary Gazettes	As required	Any day of the week	*Before 10h00 on publication date*	*Before 10h00 on publication date*
Legal Gazettes A, B and C	Weekly	Friday	One week before publication	Tuesday, 15h00 - 3 working days prior to publication
Tender Bulletin	Weekly	Friday	Friday 15h00 for next Friday	Tuesday, 15h00 - 3 working days prior to publication
Gauteng	Weekly	Wednesday	Two weeks before publication	3 days **after** submission deadline
Eastern Cape	Weekly	Monday	One week before publication	3 working days prior to publication
Northern Cape	Weekly	Monday	One week before publication	3 working days prior to publication
North West	Weekly	Tuesday	One week before publication	3 working days prior to publication
KwaZulu-Natal	Weekly	Thursday	One week before publication	3 working days prior to publication
Limpopo	Weekly	Friday	One week before publication	3 working days prior to publication
Mpumalanga	Weekly	Friday	One week before publication	3 working days prior to publication

GOVERNMENT PRINTING WORKS - BUSINESS RULES

Government Gazette Type	Publication Frequency	Publication Date	Submission Deadline	Cancellations Deadline
Gauteng Liquor License Gazette	Monthly	Wednesday before the First Friday of the month	Two weeks before publication	3 working days **after** submission deadline
Northern Cape Liquor License Gazette	Monthly	First Friday of the month	Two weeks before publication	3 working days **after** submission deadline
National Liquor License Gazette	Monthly	First Friday of the month	Two weeks before publication	3 working days **after** submission deadline
Mpumalanga Liquor License Gazette	Bi-Monthly	Second & Fourth Friday	One week before publication	3 working days prior to publication

Extraordinary Gazettes

3. *Extraordinary Gazettes* can have only one publication date. If multiple publications of an *Extraordinary Gazette* are required, a separate Z95/Z95Prov *Adobe* Forms for each publication date must be submitted.

Notice Submission Process

4. Download the latest *Adobe* form, for the relevant notice to be placed, from the **Government Printing Works** website www.gpwonline.co.za.

5. The *Adobe* form needs to be completed electronically using *Adobe Acrobat* / *Acrobat Reader*. Only electronically completed *Adobe* forms will be accepted. No printed, handwritten and/or scanned *Adobe* forms will be accepted.

6. The completed electronic *Adobe* form has to be submitted via email to submit.egazette@gpw.gov.za. The form needs to be submitted in its original electronic *Adobe* format to enable the system to extract the completed information from the form for placement in the publication.

7. Every notice submitted **must** be accompanied by an official **GPW** quotation. This must be obtained from the *eGazette* Contact Centre.

8. Each notice submission should be sent as a single email. The email **must** contain **all documentation relating to a particular notice submission**.

   8.1. Each of the following documents must be attached to the email as a separate attachment:

      8.1.1. An electronically completed *Adobe* form, specific to the type of notice that is to be placed.

         8.1.1.1. For National *Government Gazette* or *Provincial Gazette* notices, the notices must be accompanied by an electronic Z95 or Z95Prov *Adobe* form

         8.1.1.2. The notice content (body copy) **MUST** be a separate attachment.

      8.1.2. A copy of the official **Government Printing Works** quotation you received for your notice. *(Please see Quotation section below for further details)*

      8.1.3. A valid and legible Proof of Payment / Purchase Order: **Government Printing Works** account customer must include a copy of their Purchase Order**. Non-Government Printing Works** account customer needs to submit the proof of payment for the notice

      8.1.4. Where separate notice content is applicable (Z95, Z95 Prov and TForm 3, it should **also** be attached as a separate attachment. *(Please see the Copy Section below, for the specifications)*.

      8.1.5. Any additional notice information if applicable.

GOVERNMENT PRINTING WORKS - BUSINESS RULES

9. The electronic *Adobe* form will be taken as the primary source for the notice information to be published. Instructions that are on the email body or covering letter that contradicts the notice form content will not be considered. The information submitted on the electronic *Adobe* form will be published as-is.

10. To avoid duplicated publication of the same notice and double billing, Please submit your notice **ONLY ONCE.**

11. Notices brought to **GPW** by "walk-in" customers on electronic media can only be submitted in *Adobe* electronic form format. All "walk-in" customers with notices that are not on electronic *Adobe* forms will be routed to the Contact Centre where they will be assisted to complete the forms in the required format.

12. Should a customer submit a bulk submission of hard copy notices delivered by a messenger on behalf of any organisation e.g. newspaper publisher, the messenger will be referred back to the sender as the submission does not adhere to the submission rules.

QUOTATIONS

13. Quotations are valid until the next tariff change.

    13.1. ***Take note:*** **GPW**'s annual tariff increase takes place on ***1 April*** therefore any quotations issued, accepted and submitted for publication up to ***31 March*** will keep the old tariff. For notices to be published from 1 April, a quotation must be obtained from **GPW** with the new tariffs. Where a tariff increase is implemented during the year, **GPW** endeavours to provide customers with 30 days' notice of such changes.

14. Each quotation has a unique number.

15. Form Content notices must be emailed to the *eGazette* Contact Centre for a quotation.

    15.1. The *Adobe* form supplied is uploaded by the Contact Centre Agent and the system automatically calculates the cost of your notice based on the layout/format of the content supplied.

    15.2. It is critical that these *Adobe* Forms are completed correctly and adhere to the guidelines as stipulated by **GPW**.

16. **APPLICABLE ONLY TO GPW ACCOUNT HOLDERS**:

    16.1. **GPW** Account Customers must provide a valid **GPW** account number to obtain a quotation.

    16.2. Accounts for **GPW** account customers **must** be active with sufficient credit to transact with **GPW** to submit notices.

        16.2.1. If you are unsure about or need to resolve the status of your account, please contact the **GPW** Finance Department prior to submitting your notices. (If the account status is not resolved prior to submission of your notice, the notice will be failed during the process).

17. **APPLICABLE ONLY TO CASH CUSTOMERS:**

    17.1. Cash customers doing **bulk payments** must use a **single email address** in order to use the **same proof of payment** for submitting multiple notices.

18. The responsibility lies with you, the customer, to ensure that the payment made for your notice(s) to be published is sufficient to cover the cost of the notice(s).

19. Each quotation will be associated with one proof of payment / purchase order / cash receipt.

    19.1. This means that **the quotation number can only be used once to make a payment.**

GOVERNMENT PRINTING WORKS - BUSINESS RULES

COPY (SEPARATE NOTICE CONTENT DOCUMENT)

20. Where the copy is part of a separate attachment document for Z95, Z95Prov and TForm03

20.1. Copy of notices must be supplied in a separate document and may not constitute part of any covering letter, purchase order, proof of payment or other attached documents.

The content document should contain only one notice. (You may include the different translations of the same notice in the same document).

20.2. The notice should be set on an A4 page, with margins and fonts set as follows:

Page size = A4 Portrait with page margins: Top = 40mm, LH/RH = 16mm, Bottom = 40mm; Use font size: Arial or Helvetica 10pt with 11pt line spacing;

Page size = A4 Landscape with page margins: Top = 16mm, LH/RH = 40mm, Bottom = 16mm; Use font size: Arial or Helvetica 10pt with 11pt line spacing;

CANCELLATIONS

21. Cancellation of notice submissions are accepted by **GPW** according to the deadlines stated in the table above in point 2. Non-compliance to these deadlines will result in your request being failed. Please pay special attention to the different deadlines for each gazette. Please note that any notices cancelled after the cancellation deadline will be published and charged at full cost.

22. Requests for cancellation must be sent by the original sender of the notice and must accompanied by the relevant notice reference number (N-) in the email body.

AMENDMENTS TO NOTICES

23. With effect from 01 October 2015, **GPW** will not longer accept amendments to notices. The cancellation process will need to be followed according to the deadline and a new notice submitted thereafter for the next available publication date.

REJECTIONS

24. All notices not meeting the submission rules will be rejected to the customer to be corrected and resubmitted. Assistance will be available through the Contact Centre should help be required when completing the forms. (012-748 6200 or email info.egazette@gpw.gov.za). Reasons for rejections include the following:

24.1. Incorrectly completed forms and notices submitted in the wrong format, will be rejected.

24.2. Any notice submissions not on the correct *Adobe* electronic form, will be rejected.

24.3. Any notice submissions not accompanied by the proof of payment / purchase order will be rejected and the notice will not be processed.

24.4. Any submissions or re-submissions that miss the submission cut-off times will be rejected to the customer. The Notice needs to be re-submitted with a new publication date.

GOVERNMENT PRINTING WORKS - BUSINESS RULES

APPROVAL OF NOTICES

25. Any notices other than legal notices are subject to the approval of the Government Printer, who may refuse acceptance or further publication of any notice.

26. No amendments will be accepted in respect to separate notice content that was sent with a Z95 or Z95Prov notice submissions. The copy of notice in layout format (previously known as proof-out) is only provided where requested, for Advertiser to see the notice in final Gazette layout. Should they find that the information submitted was incorrect, they should request for a notice cancellation and resubmit the corrected notice, subject to standard submission deadlines. The cancellation is also subject to the stages in the publishing process, i.e. If cancellation is received when production (printing process) has commenced, then the notice cannot be cancelled.

GOVERNMENT PRINTER INDEMNIFIED AGAINST LIABILITY

27. The Government Printer will assume no liability in respect of—

27.1. any delay in the publication of a notice or publication of such notice on any date other than that stipulated by the advertiser;

27.2. erroneous classification of a notice, or the placement of such notice in any section or under any heading other than the section or heading stipulated by the advertiser;

27.3. any editing, revision, omission, typographical errors or errors resulting from faint or indistinct copy.

LIABILITY OF ADVERTISER

28. Advertisers will be held liable for any compensation and costs arising from any action which may be instituted against the Government Printer in consequence of the publication of any notice.

CUSTOMER INQUIRIES

Many of our customers request immediate feedback/confirmation of notice placement in the gazette from our Contact Centre once they have submitted their notice – While **GPW** deems it one of their highest priorities and responsibilities to provide customers with this requested feedback and the best service at all times, we are only able to do so once we have started processing your notice submission.
GPW has a 2-working day turnaround time for processing notices received according to the business rules and deadline submissions.
Please keep this in mind when making inquiries about your notice submission at the Contact Centre.

29. Requests for information, quotations and inquiries must be sent to the Contact Centre ONLY.

30. Requests for Quotations (RFQs) should be received by the Contact Centre at least **2 working days** before the submission deadline for that specific publication.

GOVERNMENT PRINTING WORKS - BUSINESS RULES

Payment of cost

31. The Request for Quotation for placement of the notice should be sent to the Gazette Contact Centre as indicated above, prior to submission of notice for advertising.

32. Payment should then be made, or Purchase Order prepared based on the received quotation, prior to the submission of the notice for advertising as these documents i.e. proof of payment or Purchase order will be required as part of the notice submission, as indicated earlier.

33. Every proof of payment must have a valid **GPW** quotation number as a reference on the proof of payment document.

34. Where there is any doubt about the cost of publication of a notice, and in the case of copy, an enquiry, accompanied by the relevant copy, should be addressed to the Gazette Contact Centre, **Government Printing Works**, Private Bag X85, Pretoria, 0001 email: info.egazette@gpw.gov.za before publication.

35. Overpayment resulting from miscalculation on the part of the advertiser of the cost of publication of a notice will not be refunded, unless the advertiser furnishes adequate reasons why such miscalculation occurred. In the event of underpayments, the difference will be recovered from the advertiser, and future notice(s) will not be published until such time as the full cost of such publication has been duly paid in cash or electronic funds transfer into the **Government Printing Works** banking account.

36. In the event of a notice being cancelled, a refund will be made only if no cost regarding the placing of the notice has been incurred by the **Government Printing Works**.

37. The **Government Printing Works** reserves the right to levy an additional charge in cases where notices, the cost of which has been calculated in accordance with the List of Fixed Tariff Rates, are subsequently found to be excessively lengthy or to contain overmuch or complicated tabulation.

Proof of publication

38. Copies of any of the *Government Gazette* or *Provincial Gazette* can be downloaded from the **Government Printing Works** website www.gpwonline.co.za free of charge, should a proof of publication be required.

39. Printed copies may be ordered from the Publications department at the ruling price. The **Government Printing Works** will assume no liability for any failure to post or for any delay in despatching of such *Government Gazette*(s)

GOVERNMENT PRINTING WORKS CONTACT INFORMATION

Physical Address:	**Postal Address:**	**GPW Banking Details:**
Government Printing Works	Private Bag X85	**Bank:** ABSA Bosman Street
149 Bosman Street	Pretoria	**Account No.:** 405 7114 016
Pretoria	0001	**Branch Code:** 632-005

For Gazette and Notice submissions: Gazette Submissions:	**E-mail:** submit.egazette@gpw.gov.za
For queries and quotations, contact: Gazette Contact Centre:	**E-mail:** info.egazette@gpw.gov.za
	Tel: 012-748 6200
Contact person for subscribers: Mrs M. Toka:	**E-mail:** subscriptions@gpw.gov.za
	Tel: 012-748-6066 / 6060 / 6058
	Fax: 012-323-9574

GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 2655 **21 October 2022**

GENERAL NOTICE IN TERMS OF THE RESTITUTION OF LAND RIGHTS ACT, 1994 (ACT NO. 22 OF 1994) AS AMENDED

Notice is hereby given in terms of section 11(1) (c) of the Restitution of Land Rights Act, 1994 as amended) that a claim has been lodged for restitution of land rights on:

REF NO.	CLAIMANT	PROPERTY DESCRIPTION	CURRENT LANDOWNERS	BONDS / NO BONDS	DEED OF TRANSFER	INTERESTED PARTIES
K0087	Mr. Vusimuzi Jonathan Mbatha	Erf 2794 Donna Road Evaton Ext 1 IQ	Friedland Philip & Nathan Edward	None	T12603/1953	Land Claimant, the current landowners and the Emfuleni Local Municipality

Take further notice that the Commission on Restitution of Land Rights will conduct further investigations on the claim in terms of the provisions of section 12 read with Rule 5 of the Rules Regarding Procedure of Commission Established in terms of section 16 of Restitution of Land Rights Act as amended. Any interested party on the claim is hereby invited to submit, representations in terms of section 11A of the Restitution of Land Rights Act 22 of 1994 as amended within 90 (ninety) working days from the publication date of this notice, any comments/information may be sent to:

Chief Directorate: Land Restitution Support Gauteng Province
Private Bag X03
ARCADIA
0007
Tel: (012) 310-6500
Fax: (012) 324-5812

MR. L.H MAPHUTHA
REGIONAL LAND CLAIMS COMMISSIONER
DATE: 13/10/2022

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 2657 **21 October 2022**

GENERAL NOTICE IN TERMS OF RESTITUTION OF LAND RIGHTS ACT, 1994 [ACT 22 OF 1994] AS AMENDED

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended**, that a **Land claim** for **Restitution of Land Rights** has been lodged by **Andries Fakazi Ndlangamandla ID No: 630608 5621 089 on** behalf of **Ndlangamandla** family on the property mentioned here under situated in **Mkhondo Local Municipality, Gert Sibande District in Mpumalanga Province (KRP: 371)**

CURRENT PARTICULARS OF THE PROPERTY

VERZAMELING 506 IT

Description of property	Owner of Property	Title Deed Number	Extent of Property	Bonds	Bond Hold	Other Endorsements
Portion 1	Sappi Manufacturing PTY LTD (1951003180007)	T58466/1999	235.0296ha	B 4950/2009	Sappi Manufacturing PTY LTD	K464/1941L
	Lereko PROP CO PTY LTD (2005038295507)	T7193/2009		B4949/200	Sappi LTD	K59/1950RM
Portion 4	Provincial Government of Mpumalanga	T10781/2015	1.7131ha	None	None	VA1616/2015 In favour of Republic Van Suid-Afrika

The affected hectors for both Portion 1 & 4 for Ndlangamandla family is **83.8214 ha**

The Regional Land Claims Commissioner, Mpumalanga Province will investigate all the claims in terms of the provisions of the Act, any party interested in the above-mentioned property is hereby invited to submit within **30 [Thirty days]** from the date of publication of this notice to submit any comments, or further information to:

Commissioner for Restitution of Land Rights
Private Bag X11330
Nelspruit
1200
Or 30 Samora Machel Drive
Nelspruit
1200
Tel No: 013 756 6000
Fax No: 013 752 3859



MR. L.H. MAPHUTHA
THE REGIONAL LAND CLAIMS COMMISSIONER
MPUMALANGA PROVINCE
DATE: 28-07-2022

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DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 2658 **21 October 2022**

GENERAL NOTICE IN TERMS OF RESTITUTION OF LAND RIGHTS ACT, 1994 [ACT 22 OF 1994] AS AMENDED

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended,** that a land claim for **Restitution of Land Rights** has been lodged by **Mr. Charles Vusumuzi Mdaka** [**ID No.** 6310085475082] on behalf of **Mdaka Family** on the property mentioned hereunder situated in **Nkomazi Local Municipality, Ehlanzeni District in the Mpumalanga Province: [KRP: 1818]**

CURRENT PARTICULARS OF THE PROPERTY

SCHOEMANSDAL 581 JU

Description of property	**Owner of Property**	**Title Deed Number**	**Extent of Property**	**Bonds**	**Bond Holder**	**Other Endorsements**
The Remaining extent of the farm Schoemansdal 581 JU	National Government of the Republic of South Africa	T101807/2001	9894.4693 Ha	None	None	K346/2016S K413/2019S K6002/2002S VA19/2015 in favour of T101807/2001
Portion 4	National Government of the Republic of South Africa	SG11254/1997	96.2040 Ha	None	None	None
Portion 31	National Government of the Republic of South Africa	SG1643/2012	2.6621 Ha	None	None	None
			(The land covers only 13.3975 Ha)			

The Regional Land Claims Commissioner, Mpumalanga Province will investigate all the claims in terms of the provisions of the Act, any party interested in the above mentioned property is hereby invited to submit within 30 [Thirty days] from the date of publication of this notice to submit any comments, or further information to:

GENERAL NOTICE IN TERMS OF RESTITUTION OF LAND RIGHTS ACT, 1994 [ACT 22 OF 1994] AS AMENDED

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended,** that a land claim for **Restitution of Land Rights** has been lodged by **Mr. Charles Vusumuzi Mdaka [ID No.** 6310085475082] on behalf of **Mdaka Family** on the property mentioned hereunder situated in **Nkomazi Local Municipality, Ehlanzeni District in the Mpumalanga Province: [KRP: 1818]**

Commissioner for Restitution of Land Rights
Private Bag X 11330
Nelspruit
1200
Or 30 Samora Machel Drive
Restitution House
Nelspruit
1200
TEL NO: 013 756 6000
FAX NO: 013 752 3859

MR. L. H . MAPHUTHA
COMMISSIONER FOR RESTITUTION OF LAND RIGHTS
DATE: 2022/06/10

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DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 2659 **21 October 2022**

GENERAL NOTICE IN TERMS OF RESTITUTION OF LAND RIGHTS ACT, 1994 [ACT 22 OF 1994] AS AMENDED

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended,** that a **Land claim** for **Restitution of Land Rights** has been lodged by **Peresiah Tryphinah Ngwenya ID No: 470707 0573 080 on** her behalf against the property mentioned here under situated in **Mkhondo Local Municipality, Gert Sibande District in Mpumalanga Province (KRP: 1961)**

CURRENT PARTICULARS OF THE PROPERTY

WATERVAL DRIFT 438 IT

Description of property	Owner of Property	Title Deed Number	Extent of Property	Bonds	Bond Holder	Other Endorsements
The Remaining Extent of Portion 1	Sappi Manufacturing PTY LTD (1951003180007)	T58466/1999	210.4624ha **The affected hectors 51.3216 ha**	B 4950/2009	Sappi Manufacturing PTY LTD	NONE
	Lereko PROP CO PTY LTD (2005038295507)	T7193/2009		B4949/2009	Sappi LTD	

The Regional Land Claims Commissioner, Mpumalanga Province will investigate all the claims in terms of the provisions of the Act, any party interested in the above-mentioned property is hereby invited to submit within **30 [Thirty days]** from the date of publication of this notice to submit any comments, or further information to:

Commissioner for Restitution of Land Rights
Private Bag X11330
Nelspruit
1200
Or 30 Samora Machel Drive
Nelspruit
1200
Tel No: 013 756 6000
Fax No: 013 752 3859



MR. L.H. MAPHUTHA
THE REGIONAL LAND CLAIMS COMMISSIONER
MPUMALANGA PROVINCE
DATE: 2022/09/27

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DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 2660 **21 October 2022**

GENERAL NOTICE IN TERMS OF RESTITUTION OF LAND RIGHTS ACT, 1994 [A650821544708SCT 22 OF 1994] AS AMENDED

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended,** that a land claim for **Restitution of Land Rights** has been lodged **by Mr. Timothy Makhubu ID no 6508215447088. behalf of Makhubu Family** on the following property mentioned hereunder situated under **Umjindi Local Municipality, Ehlanzeni District, Mpumalanga Province: KRP 10727**

DISCRIPTION OF PROPERTY
LOVEDALE 277JU

Description of property	Owner of Property	Title Deed Number	Extent of Property	Bonds	Bond Holder	Other Endorsements
Portion 41	Koedoe creek Trust [9702/1997]	T92920/2000	10.1199Ha	None	None	VA19654/2000 in favour of NABORS JAMES RICHARD
Portion 42	Koedoe creek Trust [9702/1997]	T92920/2000	36.8526Ha	None	None	K1781/1973S Va19654/2000 in favour of NABORS JAMES RICHARD

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GENERAL NOTICE IN TERMS OF RESTITUTION OF LAND RIGHTS ACT, 1994 [ACT 22 OF 1994] AS AMENDED

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended,** that a land claim for **Restitution of Land Rights** has been lodged **by Mr. Timothy Makhubu ID no. 6508215447088 on behalf of Makhubu Family** on the following property mentioned hereunder situated under **Umjindi Local Municipality, Ehlanzeni District**, Mpumalanga Province: **KRP 10727**

The Regional Land Claims Commissioner, Mpumalanga Province will investigate all the claims in terms of the provisions of the Act, any party interested in the above mentioned property is hereby invited to submit within **30 [thirty days]** from the date of publication of this notice to submit any comments, or further information to:

Commissioner for Restitution of Land Rights
Private Bag X11330
Nelspruit
1200
Or 30 Samora Machel Drive
Nelspruit
1200
Tel No: 013 756 6000
Fax No: 013 752 3859

MR L H MAPHUTHA
THE REGIONAL LAND CLAIMS COMMISSIONER
MPUMALANGA PROVINCE
DATE: 2022/09/27

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 2661 **21 October 2022**

GENERAL NOTICE IN TERMS OF RESTITUTION OF LAND RIGHTS ACT, 1994 [ACT 22 OF 1994] AS AMENDED

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended**, that a **Land claim** for **Restitution of Land Rights** has been lodged by **Andries Msolwa Ngwenya, ID No: 641019 5417 089** on behalf of the Ngwenya family on the property mentioned here under situated in Mkhondo Local Municipality, Gert Sibande District in Mpumalanga Province: **KRP:1930**

CURRENT PARTICULARS OF THE PROPERTY
VERZAMELING 506 IT

Description of property	Owner of Property	Title Deed Number	Extent of Property	Bonds	Bond Holder	Other Endorsements
The Remaining Extent of the farm Verzameling 506 IT	Theron Familie Trust [350/84]	T20558/1985	2 429.8443 ha (51.9851 ha. hectares claimed)	None	None	K2374/1987L K350/1999RM in favour of Theron Familie Trust VA275/1999

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended,** that a **Land claim** for **Restitution of Land Rights** has been lodged by **Andries Msolwa Ngwenya ID. NO. 641019 5417 089** on behalf of the Ngwenya family on the property mentioned above situated in Mkhondo Local Municipality, Gert Sibande District in Mpumalanga Province: **KRP: 1930**

The Regional Land Claims Commissioner, Mpumalanga Province will investigate all the claims in terms of the provisions of the Act, any party interested in the above mentioned property is hereby invited to submit within **30 [thirty days]** from the date of publication of this notice to submit any comments, or further information to:

Commissioner for Restitution of Land Rights
Private Bag X 11330
Nelspruit
1200

MR. L.H. MAPHUTHA
REGIONAL LAND CLAIMS COMMISSIONER
MPUMALANGA PROVINCE
DATE: 2022/09/27

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DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 2662 **21 October 2022**

GENERAL NOTICE IN TERMS OF RESTITUTION OF LAND RIGHTS ACT, 1994 [ACT 22 OF 1994] AS AMENDED

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended,** that a **Land claim** for **Restitution of Land Rights** has been lodged by the late by **Mr.Jotham Khumalo ID No: 4904295592082** on behalf of **Khumalo** family on the properties mentioned here under situated in **Seme Local Municipality, Gert Sibande District in Mpumalanga Province (KRP: 8936)**

CURRENT PARTICULARS OF THE PROPERTY

Driefontein 113 HT

Description of property	Owner of Property	Title Deed Number	Extent of Property	Bonds	Bond Holder	Other Endorsements
Portion 3	Faller's Hall PTY LTD [5903192]	T1253/1981	877.4428ha The family is only 146.0103ha	None	None	K1888/1995RM in favour of Kemp Johannes Petrus K53/1981RM in favor of Kemp Magdalena Salmina

The Regional Land Claims Commissioner, Mpumalanga Province will investigate all the claims in terms of the provisions of the Act, any party interested in the above-mentioned property is hereby invited to submit within **30 [Thirty days]** from the date of publication of this notice to submit any comments, or further information to:

Commissioner for Restitution of Land Rights
Private Bag X11330
Nelspruit
1200
Or 30 Samora Machel Drive
Nelspruit
1200
Tel No: 013 756 6000
Fax No: 013 752 3859

MR. L.H. MAPHUTHA
THE REGIONAL LAND CLAIMS COMMISSIONER
MPUMALANGA PROVINCE
DATE: 2022/09/30

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DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NO. 2663 **21 October 2022**

GENERAL NOTICE IN TERMS OF RESTITUTION OF LAND RIGHTS ACT, 1994 [ACT 22 OF 1994] AS AMENDED

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended**, that a **Land claim** for **Restitution of Land Rights** has been lodged by **Mr Bhekithemba Clement Zulu ID. NO 730228 5409 085 on** behalf of Zulu family on the property mentioned hereunder situated in **Mkhondo** Local **Municipality, Gert Sibande District in Mpumalanga Province: KRP: 367**

CURRENT PARTICULARS OF THE PROPERTY
WATERVALDRIFT 438 IT

Description of property	Owner of Property	Title Deed Number	Extent of Property	Bonds	Bond Holder	Other Endorsements
The remaining extent of Portion 1	SAPPI Manufacturing Pty Ltd (195100318007)	T58466/1999	210.4624 ha	None	None	None
	Lereko Prop CO Pty Ltd (200503329507)	T7193/2009				
Portion 8	SAPPI Manufacturing Pty Ltd (195100318007)	T58466/1999	70.4269 ha	None	None	None
	Lereko Prop CO Pty Ltd (200503329507)	T7193/2009				
Portion 10	Sappi Mnufacturing Pty Ltd (195100318007)	T58466/1999	71.3777ha	B4949/2009	None	None
		T7193/2009		B4950/2009	None	None

GENERAL NOTICE IN TERMS OF RESTITUTION OF LAND RIGHTS ACT, 1994 [ACT 22 OF 1994] AS AMENDED

Notice is hereby given in terms of **Section 11[1] of the Restitution of the Land Rights Act 1994 [Act 22 of 1994] as amended,** that a **Land claim** for **Restitution of Land Rights** has been lodged by **Mr Bhekithemba Clement Zulu ID. NO 730228 5409 085 on** behalf of Zulu family on the property mentioned hereunder situated in **Mkhondo** Local **Municipality, Gert Sibande District in Mpumalanga Province: KRP: 367**

	Lereko Prop CO Pty Ltd (200503329507)					
Potion 13	National Government of South Africa	SG124/2008	5.2569 ha	None	None	None
Portion 15	National Government of South Africa	SG126/2008	1.6746 ha	None	None	None

The Total affected hectares is 50.8482

The Regional Land Claims Commissioner, Mpumalanga Province will investigate all the claims in terms of the provisions of the Act, any party interested in the above mentioned property is hereby invited to submit within **30 [thirty days]** from the date of publication of this notice to submit any comments, or further information to:

30 Samora Machel Drive
Restitution House
Nelspruit
1200
TEL NO: 013 756 6000
FAX NO: 013 752 3859

MR. L.H. MAPHUTHA
REGIONAL LAND CLAIMS COMMISSIONER
MPUMALANGA PROVINCE
DATE: 2022/09/27

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DEPARTMENT OF EMPLOYMENT AND LABOUR

NO. 2664 **21 October 2022**

OCCUPATIONAL HEALTH SAFETY AND ACT (ACT NO.85 OF AS 1993)

DRAFT CODE OF PRACTICE FOR LIFTS INSIDE WIND TOWER-PUBLICATION FOR PUBLIC COMMENTS

CORRECTION NOTICE

Government gazette No. 46917 published in Government notice No. 2500 dated 16 September 2022 is hereby corrected as follows.

I, Phumudzo Maphaha, appointed as the Chief Inspector in terms of section 27(1) of the said Act, and by virtue of the powers delegated to me by the Minister of Labour in terms of section 42(1) of the Act, and after consultation with the Advisory Council for Occupational Health and Safety (ACOHS) hereby intend to incorporate The Code of Practice for Lifts inside Wind Towers into the Lift, Escalator and Passenger Conveyors Regulations.

Interested parties are invited to submit their **written comments** on the Draft of the Code of Practice for Lifts inside Wind Towers to the Director General office within 60 days from the date of publication of this notice .

For attention Chief Inspector

By hand: Department of Employment and Labour
Laboria House, 215 Francis Baard Street,
Pretoria CBD, 0001

By post: Chief Inspector

Department of Employment and Labour -
Attention: Karabelo Botokolo

Private Bag X117, Pretoria, 0001

By mail: Karabelo.Botokolo@labour.gov.za

Phumudzo Maphaha

Chief Inspector

DEPARTMENT OF EMPLOYMENT AND LABOUR

NO. 2665 **21 October 2022**

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
DRAFT PHYSICAL AGENTS REGULATIONS, 2022

I, **THEMBELANI WALTERMADE NXESI**, Minister of Employment and Labour hereby, under section 43 of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), after consultation with the Advisory Council for Occupational Health and Safety, made the draft regulations in the Schedule.

Interested persons who wish to comment on the draft regulations are invited to do so in writing within 90 days from the date of publication of this notice, in the prescribed format (see annexure A).
All representations and comments must be sent to the Director-General of the Department of Employment and Labour.

By hand: The Department of Employment and Labour – Attention: Warren Mallon
Laboria House
215 Francis Baard Street
Pretoria

By post: The Director General
Department of Employment and Labour – Attention: Warren Mallon
Private Bag X117, Pretoria 0001

By email: warren.mallon@labour.gov.za/ Alukhethi.Munzhedzi@LABOUR.gov.za

MR TW NXESI, MP
MINISTER OF EMPLOYMENT AND LABOUR
DATE: 19/09/2022

Annexure A

Comments / inputs on the Draft Physical Agents Regulations as proposed by the Department of Employment and Labour.

Kindly provide inputs, corrections and/ or comments in writing on the proposed Draft Physical Agents Regulations in the following format:

Name and Surname:										E- mail		Phone number:
Company name (if applicable)												
Government		Industry		Union		Consultancy		Private		Other		

1	Regulation and/or sub regulation from the draft, referring to	Comment/ Input/ Correction/ Proposal Plus motivation
Will the proposed regulation have an impact on any other regulation? If so, which regulation and what will be the impact?		
2	Regulation and/or sub regulation from the draft, referring to	Comment/ Input/ Correction/ Proposal Plus motivation
Will the proposed regulation have an impact on any other regulation? If so, which regulation and what will be the impact?		
3	Regulation and/or sub regulation from the draft, referring to	Comment/ Input/ Correction/ Proposal Plus motivation
Will the proposed regulation have an impact on any other regulation? If so, which regulation and what will be the impact?		

General comments:	

Signature: _____

Date: _____

Provide inputs to Department of Employment and Labour by e-mailing this completed document to warren.mallon@labour.gov.za and Alukhethi.Munzhedzi@LABOUR.gov.za

2

Physical Agents Regulations

SCHEDULE

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1. Scope of application
2. Information, instruction and training
3. Duties of person exposed to physical agents
4. Duties of designers, manufacturers, importers and suppliers
5. Physical agents risk assessment
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Definitions

1. In these Regulations any word or expression to which a meaning has been assigned in the Act has the meaning so assigned and, unless the context indicates otherwise-

"action level" means the level of an agent at which specified actions or counter measures which must to be taken;

"air velocity" means the rate of motion of air in a given direction, measured as distance per unit time;

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"air temperature" means the temperature of air as determined by a standard thermometer, with units expressed in degrees Celsius (°C);

"artificial ventilation" means the system in which air is caused to circulate through a room by means of a mechanical apparatus which forces air into or extracts air from such a room;

"clothing adjustment factor" means the single number that is added to the environmental WBGT to represent the effects of clothing worn during an activity;

"Chief Director: Provincial Operations" means the provincial director as defined in regulation 1 of the General Administrative Regulations, 2003, published as Government Notice R.929 in Gazette No. 25129 of 25 June 2003;

"competent person" means

a) has, in respect of the work or task to be performed, the required knowledge, training and experience in the physical agent and, where applicable, the relevant qualifications specific to the physical agent: provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualifications Framework Act, 2008 (Act No. 67 of 2008), those qualifications and that training must be regarded as the required qualifications and training; and
b) is familiar with the Act and the applicable regulations made under the Act;

"electromagnetic field" means the static electric, static magnetic and time-varying electric, magnetic and electromagnetic fields with frequencies up to 300 GHz;

"equivalent chill temperature" means the expression of wind-chill reflecting the cooling power of wind on exposed flesh;

"exposure" means the condition of being affected by a physical agent at the workplace, and includes potential, accidental or possible exposure, and exposed has a derivative meaning;

"exposure monitoring" means the systematic process of measuring the magnitude, frequency and duration of exposure to a physical agent;

"flicker" means the perception of visual unsteadiness induced by a light stimulus the luminance or spectral distribution of which fluctuates with time, for a static observer in a static environment;

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"glare" means the condition of vision that is caused by luminance that sufficiently exceeds the luminance to which the eyes are adapted and that causes annoyance or discomfort or reduction in visual performance and visibility;

"hand-arm vibration" means the mechanical vibration which is transmitted into the hands and arms during a work activity;

"illuminance" means the expressed amount of light falling upon a surface, and measured in the unit of lux;

"indoor air quality" means the totality of attributes of indoor air that affect a person's health and wellbeing;

"lighting" means the application of light to a scene, objects or their surroundings so that they may be seen, and illumination has a corresponding meaning;

"natural ventilation" means the movement of air through a building due to natural causes;

"non-ionising radiation" means the series of energy waves composed of oscillating electric and magnetic fields traveling at the speed of light, and includes the spectrum of ultraviolet, visible light, infrared, microwave, radio frequency, and extremely low frequency;

"occupational exposure level" means the limit value set by the Minister for a physical agent in the workplace;

"optical radiation" means the part of the electromagnetic spectrum, and includes infrared radiation, visible light and ultraviolet radiation;

"physical agents" means a source of energy which may result in injury or disease after exposure, and includes, but not limited to cold stress, heat stress, vibration, non-ionising radiation and illumination;

"physical agents risk assessment" means a risk assessment and risk categorisation of potential exposure to a physical agent;

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"physical agents technical committee" means a committee established in terms of regulation 18;

"relative humidity" means the ratio of the quantity of water vapour present in the air to the quantity that would saturate it at any specific temperature;

"SANS 10114, part 1" means the South African National Standards' Code of Practice for interior lighting, part 1: artificial lighting of interiors;

"SANS 10114, part 2" means the South African National Standards' Code of Practice for interior lighting, part 2: emergency lighting;

"SANS 10389, part 1" means the South African National Standards' Code of Practice for exterior lighting, part 1: artificial lighting of exterior areas for work and safety;

"SANS 10400, part O" means the South African National Standards' Code of Practice for the application of the national building regulations, part O: lighting and ventilation;

"SANS 2631" means the South African National Standards' Code of Practice for interior lighting, part 2: emergency lighting;

"SANS 7243" means the South African National Standards' Code of Practice for hot environments – estimation of the heat stress on working man, based on the WBGT-Index (wet bulb globe temperature);

"specialised" means working environments or workplaces that may require specialist guidance and analysis of the visual task, application that may result in more special requirements for the illumination of the workplace, task area;

"time weighted average" means a level over a defined period of time to which nearly all workers may be exposed repeatedly, day after day, without adverse effects;

"thermal comfort" means the description of the human satisfactory perception of the thermal environment;

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"uniformity of illuminance" means the ratio of the minimal illuminance over the area weighted average illuminance (Ehmin/Ehav) or area weighted maximum illuminance (Ehmin/Ehmax);

"vibration" means the mechanical oscillations of an object about an equilibrium point;

"vulnerable employee" means an employee who is at a higher risk of injury, disease or complications;

"Wet bulb globe temperature Index or WBGT Index" means the combination of the effect of the four main thermal components affecting heat stress: air temperature, humidity, air velocity, and radiation, as measured by the dry bulb (Tdb), natural wet bulb (Tnwb), and globe (Tg) temperatures;

"whole body vibration" means mechanical vibration which is transmitted into the body, when seated or standing, through the supporting surface, during a work activity;

Scope of application

2. (1) These Regulations will apply to:

(a) any employer or self-employed person who carries out work at a workplace, which may expose any person to a physical agent in that workplace; and

(b) a designer, manufacturer, importer or supplier of machinery or plant for use at a workplace.

(2) The provision of regulation 3 shall not apply to a self-employed person.

Information, instruction and training

3. (1) An employer who undertakes work which exposes an employee to a physical agent must inform and consult the relevant health and safety representatives or health and safety committee for that workplace of the intention to conduct:

(a) a physical agents risk assessment contemplated in regulation 6;

(b) physical agents exposure monitoring contemplated in regulation 7; and

(c) a training programme contemplated in sub-regulation (4).

(2) An employer who undertakes work which exposes an employee to a physical agent must inform the relevant health and safety representatives or health and safety committee for that workplace of the intention to conduct medical surveillance contemplated in regulation 8;

(3) An employer must inform the relevant health and safety representatives or health and safety committee for that workplace of the documented outcomes of the:

(a) physical agents risk assessment contemplated in regulation 6;

(b) physical agents exposure monitoring contemplated in regulation 7; and

(c) medical surveillance contemplated in regulation 8.

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(4) Every employer who undertakes work which is liable to expose an employee to a physical agent risks must, before any employee is exposed or may be exposed, after consultation with the health and safety committee established for that section of the workplace, establish a training programme, which incorporates the following:
(a) the content and scope of these Regulations;
(b) the potential sources of exposure to a physical agent;
(c) the nature of the physical agent;
(d) the potential risk to health and safety associated with physical agent;
(e) the differing effects of exposure to physical agents to men, women, young employees and vulnerable employees, where such difference may exist;
(f) the control measures that are in place to prevent exposure to a physical agent;
(g) the necessity, correct use, maintenance and limitations of such control measures;
(h) the procedure for reporting physical agent risks to the health and safety representative or employer;
(i) the precautions to be taken by an employee to protect himself against physical agent risks;
(j) the reason for and the outcomes of the physical risk assessment and monitoring of exposure, the necessity for medical surveillance and the long-term benefits of undergoing such surveillance;
(k) the occupational exposure limit for the physical agent and its meaning; and
(l) access to records of physical risk assessment, physical agents exposure monitoring and personal medical records.

(5) The employer must conduct refresher training at intervals that may be recommended by the health and safety committee or the health and safety representative.

Duties of persons exposed to physical agents

4. (1) Any person who is exposed or may be exposed to a physical agent must obey any lawful instruction issued by the employer or self-employed person or by anyone authorised by the employer or self-employed person, regarding:
(a) the use and failure of measures adopted to control physical agents;
(b) cooperation with the employer in determining the employee's exposure to physical agents;
(c) the reporting of potential physical agent risks to the health and safety representative or the employer;
(d) reporting for medical surveillance as required by regulation 8; and
(e) information, instruction and training received as contemplated in regulation 3.

Duties of designers, manufacturers, importers and suppliers

5. (1) Any designer, manufacturer, importer or supplier of machinery or plant for use at work must:
(a) as far as is reasonably practicable, ensure that machinery or plant to minimise the exposure to a physical agent;
(b) as far as is reasonably practicable, supply machinery or plant that can be transported, received, stored and handled in a manner that minimise the exposure to a physical agent;
(c) provide information, instruction and training as deemed necessary to minimise the exposure to a physical agent during use of machinery or plant;
(d) as far as is reasonably practicable, install machinery or plant in a manner that minimise the exposure to a physical agent; and
(e) provide information to potential users on the appropriate maintenance of machinery or plant to ensure safe operation and use.

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Physical agents risk assessment

6. (1) An employer or self-employed person must carry out a documented physical agent risk assessment, as far as is reasonably practicable, immediately, by a competent person.

(2) The physical agents risk assessment contemplated in sub-regulation (1) must–

(a) be conducted at intervals not exceeding 24 months; and

(b) includes:

(i) a complete hazard identification;

(ii) the identification of all persons who may be affected by the physical agents risks;

(iii) how employees may be affected by the physical agents risks;

(iv) the analysis and evaluation of the physical agents risks; and

(v) the prioritisation of physical agents risks.

(3) The risk assessment conducted in terms of sub-regulation (1) must take into account specific effects of exposure to men, women, young employees and vulnerable employees, where applicable;

(4) An employer must, in terms of the physical agents risk assessment;

(a) consider the recommendations identified by the competent person in the physical agents risk assessment; and

(b) develop a documented action plan for the implementation of the recommendations.

(5) An employer must review the relevant physical agents risk assessment made in accordance with sub-regulation (1) if:

(a) such assessment is no longer valid;

(b) control measures are no longer effective;

(c) technological or scientific advances allow for more effective control methods;

(d) there has been a change in–

(i) the workplace or work methods;

(ii) the type of work carried out; or

(iii) the type of machinery, plant or personal protective equipment used to control the exposure;

(e) an incident occurs;

(f) medical surveillance reveals an adverse health effect, where a physical agent risk are identified as a contributing factor.

Physical agent exposure monitoring

7. (1) Where a physical agent risk assessment or a review of such assessment indicates that any employee may be exposed to a physical agent at or above a level above the occupational exposure limit, an employer must ensure that a physical agents exposure monitoring programme at that workplace is:

(a) representative of the employees' exposure to a physical agent; and

(b) conducted by a competent person in the identified physical agent;

(2) The physical agents exposure monitoring programme referred to in sub-regulation (1) must include the quantification of exposure levels and comparison to occupational exposure limits for the particular physical agent;

(3) An employer must conduct the physical agents exposure monitoring, referred to in sub-regulation (1), at a frequency determined by the physical agents risk assessment, or at intervals not exceeding 24 months;

(4) An employer must, in terms of physical agents exposure monitoring-

(a) consider the recommendations identified by the competent person in the physical agents exposure monitoring report; and

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(b) develop a documented action plan for the implementation of the recommendations.

Medical surveillance

8. (1) An employer shall establish, implement and maintain a documented system of medical surveillance, which is overseen by an occupational medicine practitioner, if;

(a) the physical agents risk assessment or the exposure monitoring for physical agents indicates the need for the employee to be placed under medical surveillance; or

(b) in the opinion of an occupational health practitioner that relevant employees must be under medical surveillance, in which case the employer may call upon an occupational medicine practitioner to ratify the appropriateness of such recommendation; and

(c) there are techniques to identify the disease or adverse health effect, as far as is reasonably practicable;

(2) In order to comply with sub-regulation (1), an employer shall, as far as is reasonably practicable, ensure that the documented system of medical surveillance shall include at least the following:

(a) an initial health evaluation carried out by an occupational health practitioner immediately before a person commences employment or placement, where any exposure exists or may exist of;

(i) an evaluation of the employee's medical, occupational and exposure history;

(ii) an appropriate clinical examination; and

(iii) any other medical test which in the opinion of the occupational health practitioner is necessary in order to enable such practitioner to perform an appropriate evaluation;

(b) a periodic health evaluations of the employee under medical surveillance by an occupational health practitioner, must be performed at intervals corresponding with the health risks and the health status of the employee, but which must not exceed intervals of twenty-four months and consists of

(ii) an appropriate clinical examination; and

(iii) any other medical test which in the opinion of the occupational health practitioner is necessary in order to enable such practitioner to perform an appropriate evaluation; and

(c) an analysis of the health data to identify trends that may indicate adverse health effects of exposure to a physical agent, where the results of the analysis shall be recorded as required by regulation 17;

(d) an exit health evaluations of the employee under medical surveillance by an occupational health practitioner which consists of:

(ii) an appropriate clinical examination; and

(iii) any other medical test which in the opinion of the occupational health practitioner is necessary in order to enable such practitioner to perform an appropriate evaluation;

(3) The documented system of medical surveillance must be approved by an occupational medicine practitioner; and

(4) After concluding the initial or periodic health evaluation, the occupational health practitioner must ensure that the employer is informed, in writing, of the outcome of an employee's health evaluation.

Cold stress

9. (1) Subject to the provisions of sub-regulation (2), no employer must require or permit an employee to work in an environment in which the average environmental equivalent chill temperature taken over a period of four-hours is below 10 degrees Celsius, unless the

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employer takes reasonable measures to protect such employee against the cold and further takes all precautions necessary for the health and safety of such employee;

(2) No employer must require or permit an employee to work in an environment in which the average environmental equivalent chill temperature is below 10 degrees Celsius provided that:

(a) the maximum exposure of the employee does not exceed the periods as indicated in table 3;

(b) the employee is provided with dry, whole body personal protective clothing and equipment, with adequate insulation;

(3) The physical agents exposure monitoring programme referred to in regulation 7 (1), must:

(a) take into account both dry-bulb temperature and air velocity, when determining the average environmental equivalent chill temperature;

(b) taken over a period of at least four hours, during the coldest period of an employee's shift; and

(c) is conducted during the coldest quarter of the year, as determined by the physical agents risk assessment.

Heat stress

10. (1) Subject to the provisions of sub-regulation (2), no employer must require or permit an employee to work in an environment in which the time-weighted average WBGT Index, determined over a period of one hour, does not exceed 30;

(2) An employer must, where the time-weighted average WBGT exceeds the action level of 27:

(a) provide training to exposed employees on adverse health effects relating to heat stress exposure and the precautionary measures to be taken; and

(b) subject exposed employees to a heat acclimatisation programme.

(3) No employer must require or permit an employee to work in an environment in which the time-weighted average WBGT Index is above 30, provided that:

(a) appropriate means of ventilation systems are implemented;

(b) a work rest cycle is established and implemented for that workplace;

(c) sufficient amounts of potable water is available at the place of work, in relation to the number of employees exposed;

(d) prompt first aid treatment, specific to adverse health effects from heat stress, is made available; and

(e) the employee is provided with the appropriate personal protective clothing and equipment, taking into account clothing adjustment factor, according to SANS 7243.

(4) The physical agents exposure monitoring programme referred to in regulation 7 (1), must:

(a) be conducted in accordance with the latest version of SANS 7243; and

Lighting

11. (1) An employer must provide illumination in the workplace in the form of either natural light, artificial light or a combination thereof;

(2) An employer must ensure that, as far as reasonably practicable, illumination be provided in the workplace to carry out work, without risk to health and safety by taking into account:

(a) illuminance levels;

(b) glare;

(c) uniformity;

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(d) flicker;
(e) hazardous or specialised workplaces; and
(f) hazardous or specialised operations;

(3) With respect to the illumination to be provided in terms of sub-regulation (1), the employers must ensure that:
(a) illuminance provided for the workplace is in accordance with the minimum illuminance values specified:

(i) in table 5 for interior workplaces: Provided that where a workplace is not referenced in table 5, the minimum illuminance levels in table 6 will apply; and

(ii) in table 7 for exterior workplaces of these Regulations: Provided that where a workplace is not referenced in table 7, the minimum illuminance levels in table 8 will apply.
(b) glare within the workplace must not exceed the maximum glare values specified:

(i) in table 5 for interior workplaces: Provided that where a workplace is not referenced in table 5, the maximum glare values must be informed by the physical agents risk assessment; and

(ii) in table 7 for exterior workplaces: Provided that where a workplace is not referenced in table 7, the maximum glare values in table 8 will apply.
(c) the average uniformity of illuminance at any working plane:

(i) for interior workplaces, within five meters of a working plane, is not less than one fifth of the average illuminance on that working plane and on the adjacent floors; and

(ii) for exterior workplaces, must be in accordance with the values listed in table 7: Provided that where a workplace is not referenced in table 7, the average uniformity in table 8 will apply;
(d) flicker in the workplace must be eliminated;
(e) specialised lighting must be required for use in hazardous or specialised workplaces, as identified by the physical agents risk assessment; and
(f) specialised lighting must be required for use in hazardous or specialised operations, as identified by the physical agents risk assessment;

(4) With a view to the emergency evacuation of interior workplaces, every employer must, in such workplaces, provide emergency sources of lighting which are such that, when activated, an illuminance for:
(a) escape route lighting must not be less than 1 lux at floor level;
(b) emergency escape lighting must not be less than 5 lux at floor level to emphasise the existence of potential workplace hazards and the location of safety equipment;
(c) lighting at an emergency exit must not be less than 5 lux at floor level; and
(d) workplaces or operations where it is necessary to stop machinery or shut down plant or processes before evacuating the workplace, or where dangerous materials are present or dangerous processes are carried out, the illuminance must not be less than 20 lux at floor level;

(5) An employer shall ensure that the emergency sources of lighting prescribed by sub-regulation (3):
(a) are capable of being activated within:

(i) 25 seconds of the failure of the lighting prescribed by sub-regulation (3) (a), (b) and (c); and

(ii) 0,5 seconds of the failure of the lighting prescribed by sub-regulation 3 (d);
(b) will last long enough to ensure the safe evacuation of the workplace;
(c) are mounted at a height of not less than two meters above floor level and are not aimed between 10° above and 45° below the horizontal line on which they are installed; and
(d) are kept clean, in good working order and tested for efficient operation at intervals of not more than three months;

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(6) The lighting measurement and monitoring programme must be conducted according to;
(a) SANS 10114-1, for interior lighting;
(b) SANS 10389-1, for exterior lighting;
(c) SANS 10114-2, for emergency lighting; and
(d) the lighting measurement contemplated in sub-regulation (6)(a), (b) and (c) must be conducted by a competent person;

(7) In order to ensure that lighting levels meet the minimum illumination levels prescribed in sub-regulation (2) (a), an employer must ensure that;
(a) luminaires and lamps are maintained, kept clean, in good working order and must be replaced or repaired when defective; and
(b) windows and other sources of natural lighting are kept clean, replaced and repaired when defective;

(8) An employer engaged in building work shall cause all workplaces where danger may exist through the lack of natural light, to be illuminated such that it will be safe in terms of the physical agents risk assessment.

Indoor air quality

12. (1) An employer must ensure good indoor air quality for a workplace, by:
(a) introducing and distributing the ventilation of air;
(b) controlling airborne contaminants; and
(c) maintaining air temperature, air velocity and relative humidity;

(2) The employer shall ensure that risk from the exposure of employees to hazardous biological, chemical and physical agents impacting indoor air quality is, as far is reasonably practicable, either eliminated at source, diluted through either natural ventilation or an artificial ventilation system or filtered through the use of a filtration system;

(3) The employer must ensure that the artificial ventilation system referred to in sub-regulation (2) complies with the air requirements for different types of occupancies, listed in Part-O of the National Building Regulations, SANS 10400;

(4) The employer must ensure that the artificial ventilation system referred to in sub-regulation (2) is tested, by a competent person, at intervals as per the original manufacturer specifications but not exceeding 24 months;

(5) The employer must ensure that the artificial ventilation system is maintained as per the original manufacturer specifications: Provided that in the absence of the original manufacturer specifications, a risk based approach is undertaken;

(6) The physical agents exposure monitoring referred to in regulation 7(1), must take into account the following parameters:
(a) thermal comfort, including:
(i) Air temperature;
(ii) Air velocity; and
(iii) Relative humidity;
(b) airborne contaminants, including:
(i) carbon monoxide;
(ii) carbon dioxide;
(iii) other applicable hazardous chemical agents;
(iv) mould; and
(v) other applicable hazardous biological agents;
(c) air changes per type of occupancy.

Vibration

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13. (1) Subject to the provisions of sub-regulation (2), no employer must require or permit an employee to work in an environment in which the time-weighted average occupational exposure limit, determined over a period of eight hours, does not exceed OEL for hand-arm vibration or whole body vibration, stipulated in table 1;

(2) An employer shall ensure that risk from the exposure of employees to vibration is either eliminated at source or, where this is not reasonably practicable, reduced to as low a level as is reasonably practicable, provided that:

(a) Where it is not reasonably practicable to eliminate risk referred to in sub-regulation (2), and an action level for hand arm vibration or whole body vibration, as stipulated in table 1, is likely to be reached or exceeded, the employer must reduce exposure to as low a level as is reasonably practicable by establishing and implementing:

(i) other working methods which eliminate or reduce exposure to vibration;

(ii) choice of plant and machinery designed to produce the least possible vibration;

(iii) maintenance programmes for plant and machinery, the workplace and workplace systems;

(iv) the design and layout of workplaces, workstations and rest facilities;

(v) provide training to exposed employees on adverse health effects relating to vibration exposure and the precautionary measures to be taken;

(vi) review medical surveillance, physical agents exposure monitoring program and physical agents risk assessment;

(vii) limitation of the duration and magnitude of exposure to vibration;

(viii) appropriate work schedules with adequate rest periods; and

(ix) the provision of clothing to protect employees from cold and damp.

(b) Subject to sub-regulation 2(a), the employer must ensure that employees are not exposed to vibration above an occupational exposure limit, and where such limit is exceeded, must:

(i) reduce exposure to vibration to below the occupational exposure limit;

(ii) identify the reason for that limit being exceeded; and

(iii) modify the control measures taken in accordance with sub-regulation (2)(a) to prevent it being exceeded again;

(3) The physical agents exposure monitoring programme referred to in regulation 7 (1), must:

(a) for whole body vibration, be conducted in accordance with the latest version of SANS 2631;

(b) for hand-arm vibration, for monitoring to be representative of an employee's exposure, it must;

(c) be conducted along each axis for roll, pitch and yaw;

(d) be a minimum of one exposure cycle, normalised to an eight-hour time weighed average. Provided: for the event of multiple sources of vibration, the partial exposure values are combined and normalised to an eight-hour time weighed average;

(e) in the case of plant or machinery which need to be held with both hands, monitoring must be conducted on each hand, whereby the exposure is determined by reference to the higher value of the two; and

(f) be conducted during the coldest period of an employee's shift.

Non-ionising radiation

14. (1) Subject to the provisions of sub-regulation (2), no employer must require or permit an employee to work in an environment in which the time-weighted average occupational exposure limit, does not exceed the occupational exposure limit for the type of non-ionising radiation, stipulated in tables 1 and 2;

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(2) An employer must ensure that risk from the exposure of employees to non-ionising radiation is either eliminated at source or, where this is not reasonably practicable, reduced to as low a level as is reasonably practicable;

(3) An employer must ensure that employees are not exposed to non-ionising radiation above an occupational exposure limit, and where such limit is exceeded, must:

(a) reduce exposure to non-ionising radiation to below the occupational exposure limit;

(b) identify the reason for that limit being exceeded; and

(c) modify the control measures taken in to prevent the limit from being exceeded again;

(4) The physical agents exposure monitoring referred to in regulation 7(1), must take into account:

(a) the source of the non-ionising radiation;

(b) the type of non-ionising radiation:

(i) optical radiation; and

(ii) electromagnetic fields

(c) a methodology that is conducted according to an internationally recognised standard for the type of non-ionising radiation;

(5) Signage must be;

(a) provided for:

(i) identified source of the non-ionising radiation; and

(ii) the effect of electromagnetic interference on heart pacemakers;

b) in the form specified in Annexure 1, which:

(i) is clearly visible; and

(ii) with the number of labels, based on the physical agents risk assessment, serving as a warning of exposure.

Control of exposure to physical agents

15. (1) An employer or self-employed person must ensure that the exposure of a person to a physical agent is either prevented or, where this is not reasonably practicable, adequately controlled;

(2) In order to comply with sub-regulation (1), an employer or self-employed person must, as far as is reasonably practicable, reduce exposure to a physical agent to levels below the limits referred to in tables 1 and 2 by implementing a combination of the hierarchy of control measures including, but not limited:

(a) engineering control measures;

(b) administrative control measures; and

(c) the use of personal protective equipment and facilities;

(3) An employer must ensure that an employee who is exposed to a physical agent receives information, instructions and training with regard to the correct inspection and use, and reporting of failures of control measures implemented in sub-regulation (2).

Personal protective equipment and facilities

16. (1) If it is not reasonably practicable to ensure that the exposure of an employee is controlled as contemplated in regulation 15, the employer must provide the employee with suitable personal protective equipment;

(2) Where personal protective equipment is provided, the employer must ensure that:

(a) the relevant personal protective equipment is capable of reducing the exposure to the physical agent concerned;

(b) selection of the relevant personal protective equipment takes into consideration:

(i) the nature of the physical agent;

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(ii) the type of work to be done;
(iii) the physical effort required to do the work;
(iv) the length of time it will have to be worn;
(v) the requirements in relation to the work for visibility, comfort and employee communication; and
(vi) compatibility with any other personal protective equipment that may be needed;
(c) information, instructions, training and supervision are provided with regard to the correct inspection, use, care and disposal of the personal protective equipment, to exposed persons;
(d) reusable personal protective equipment is kept in hygienic condition and efficient working order;
(e) the relevant personal protective equipment is readily available to exposed persons;
(f) storage facilities for personal protective equipment are provided when not in use; and
(g) personal protective equipment is used or worn by the worker, by enforcing its use through providing adequate supervision;

(3) The employee must, where there is the requirement to use personal protective equipment as contemplated in sub-regulation (1);
(a) inspect, use, wear, store and dispose of the personal protective equipment in accordance with any information, training or lawful instruction given by the employer;
(b) not intentionally misuse or damage the personal protective equipment; and
(c) immediately inform the employer of any damage, defect, or any need to clean or replace any of the personal protective equipment.

Maintenance of control measures

17. (1) Every employer or self-employed person must ensure that any control measures that are provided for the benefit of employees in compliance with duties assigned under these regulations:
(a) is fully and properly used;
(b) is inspected, maintained in an efficient state, in good working order, repair and cleanliness; and
(c) reviewed for effectiveness, at intervals not exceeding 24-months.

Records

18. (1) An employer or self-employed person must:
(a) keep record of:
(i) training, as contemplated in regulation 3;
(ii) physical agents risk assessments and action plan, as contemplated in regulation 6;
(iii) physical agents exposure monitoring and action plan, as contemplated in regulation 7;
(iv) medical surveillance reports, as contemplated in regulation 8; and
(v) maintenance of control measures, as contemplated in regulation 17;
(b) keep records for a minimum period of–
(i) 40-years for records contemplated in regulations 6, 7 and 8;
(ii) five years for records contemplated in regulations 17;
(iii) the length of time the employee remains at the workplace for records contemplated in regulation 3;
(c) make available to;
(i) the relevant health and safety representative, health and safety committee or to an inspector, the records contemplated in regulations 3, 6, 7 and 17;

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(ii) any person, the records contemplated in regulation 8, subject to formal written consent of the employee; and

(d) submit all records, as contemplated in sub-regulation 1(a) to the relevant chief director: provincial operations, when they cease activity.

Physical agents technical committee

19. (1) The Council must, after consultation with the Minister, establish a physical agents technical committee which must consist of:

(a) a chairperson;

(b) one person designated by the chief inspector from the employees of the Department of Employment and Labour;

(c) three persons designated by employer's organisations to represent employers;

(d) three persons designated by employees' organisations to represent the federation of unions;

(e) one person to represent a professional body recognised by the chief inspector;

(f) one person representing a higher educational institution;

(g) one person representing occupational medicine; and

(h) persons who are competent in respect of the matters to be dealt with by the physical agents technical committee who have been co-opted by the committee with the authorisation of the council;

(2) The Council:

(a) must appoint members of the physical agents technical committee for a period that the council may determine at the time of the appointment;

(b) must, after having afforded a member a reasonable opportunity to respond, discharge such a member at any time, for reasons that are fair and just; and

(c) must appoint a new member in the place of a member who is discharged in terms of sub-regulation (2)(b).

(3) The physical agents technical committee must:

(a) advise the Council on physical agents related matters, including, but not limited to, codes, standards and training requirements;

(b) make recommendations and submit reports to the Council regarding any matter to which these Regulations apply;

(c) advise the Council regarding any matter referred to the physical agents technical committee by the Council;

(d) perform any other function for the administration of a provision of these Regulations that may be requested by the Council; and

(e) conduct its work in accordance with the instructions and rules of conduct framed by the Council.

Offences and penalties

20. Any person who contravenes or fails to comply with any provision of regulation 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13,14, 15, 16, 17 or 18 shall be guilty of an offence and liable on conviction to a fine or to imprisonment for a maximum of 12 months and, in the case of a continuous offence, to an additional fine of R200 for each day on which the offence continues or additional imprisonment of one day for each day on which the offence continues: Provided that the period of such additional imprisonment shall in no case exceed 90 days.

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Annexure 1 - Signage

Beware of non-ionising radiation



Beware of electromagnetic interference on heart pacemaker



Table 1: Occupational Exposure Limits and Action Levels for Physical Agents.

Physical Agent	Action Level	Occupational Exposure Limit	Unit	Duration	Target organ
Cold Stress	-	10	°C	1-hour	-
Heat Stress	27	30	WBGT	4-hours	-
Hand-arm vibration	2,5	5	m/s^2	8-hours	-
Whole-body vibration	0,5	1,15	m/s^2	8-hours	-

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UV-C (Wavelength 270nm)	-	0.1	microwatt per square centimetre ($\mu W/cm^2$)	8-hours	Skin and eye
Infrared (Wavelength 770nm – 3000 nm)	-	10	milliwatt per square centimetre (mW/cm^2)	1000 seconds	Cornea and lens

Table 2: Occupational exposure limits for electromagnetic fields.

Frequency range	E-field strength (V/m^{-1})	H-field strength (A/m^{-1})	B-field strength (μT)	Equivalent plane wave power density (W/m^{-2})
Up to 1 Hz	-	1.63×10^5	2×10^5	-
1 to 8 Hz	20 000	$1.63 \times 10^5 / f^2$	$2 \times 10^5 / f^2$	-
8 to 25 Hz	20 000	$2 \times 10^4 / f$	$2.5 \times 10^4 / f$	-
0.025 to 0.82 kHz	$500/f$	$20/f$	$25f$	-
0.82 to 65 kHz	610	24.4	30.7	-
0.065 to 1 MHz	610	$1.6f$	$2.0/f$	-
1 to 10 MHz	$610/f$	$1.6/f$	$2.0/f$	-
10 to 400 MHz	61	0.16	0.2	10
400 to 2 000 MHz	$3f^{-1/2}$	$0.008f^{-1/2}$	$0.01f^{-1/2}$	$f/40$
2 to 300 GHz	37	0.36	0.45	50

Table 3: Cold Stress Exposure period.

Temperature °C	Maximum exposure
<10° to -18°	No limit.
Lower than -18° but not lower than -34° degrees	Maximum continuous exposure during each hour = 50 minutes. After every exposure in a low-temperature area at least 10 minutes must be spent, under supervisions, in a comfortably warm environment.

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Lower than -34° but not lower lower than -57°	Two periods of 30 minutes each, at least 4 hours apart. Total low-temperature exposure: 1 hour per day.
Lower than -57°	Maximum permissible exposure = 5 minutes during any 8-hour period.

Table 4: Guideline levels for indoor air quality parameters.

IAQ Parameter	Level	Unit
Air temperature	20 to 28 (dry bulb temperature)	Degrees Celsius
Air velocity	0.1 to 0.8	meters per second (m/s)
Relative humidity	30 to 60	%
Carbon Dioxide	Not exceed the outdoor concentration by more than 600ppm	Parts per million (ppm)
Carbon Monoxide	10	mg/m^3

Table 5: Minimum maintained illuminance values for interior workplaces.

Type of interior, area, task, or activity	Minimum maintained average illuminance (lux)	Maximum glare rating (UGR)
General building areas		
Entrance halls	100	22
Lounges	200	22
Circulation areas and corridors	100	28
Stairs, escalators and travelators	150	25
Loading ramps/bays	150	25
Canteens	200	22
Rest rooms	100	22
Rooms for physical exercise	300	22
Cloakrooms, washrooms, bathrooms, toilets	200	25
Sick bays	500	19
Rooms for medical attention	500	16
Plant rooms, switch-gear rooms	200	25
Post rooms, switchboards	500	19
Stores, stockrooms, cold stores	100	25
Stores, stockrooms, cold stores (continuously occupied)	200	25

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Dispatch packing and handling areas	300	25
Control stations	150	22
Control stations (continuously occupied)	200	22
Abattoirs		
Cold store, casting and stunning pen	150	25
Bleeding area	200	25
Dressing, evisceration, washing tripery and skin sorting	300	25
Inspection and grading	500	25
By-products manufacturing, e.g. digesters, grinding, etc.	200	25
Agriculture		
Loading and operating of goods- handling equipment and machinery	200	25
Feed preparation, utensil washing	200	25
Cutting and sorting of fruit and vegetables	300	25
General work areas	200	25
Bottle inspection	500	22
Bottle filling	500	25
Dispatching	150	25
Airports		
Arrival and departure halls, baggage claim areas	200	22
Connecting areas, escalators, travelators	150	22
Information desks, check-in desks	500	19
Customs and passport control desks	500	19
Waiting areas	200	22
Luggage store rooms	200	28
Security check areas	300	19
Ticket hall and concourse	200	28
Ticket and luggage offices and counters	300	19
Platforms and passenger subways, underpasses	50	28
Testing and repair hangars	500	22
Engine test areas	500	22
Measuring areas in hangars	500	22
Bakeries		
Preparation and baking	300	22
Finishing, glazing and decorating	500	19
Banks		
Counters (see also offices)	500	19
General work areas	500	22
Brewing and distilling		

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General work areas	200	25
Brewhouse, bottling and canning plants	300	22
Bottle inspection	500	22
Car parks		
In/out ramps (day)	300	25
In/out ramps (night)	75	25
Traffic lanes	75	25
Parking areas	75	28
Ticket office (manned)	300	19
Ticket vending machine	150	25
Cement, concrete and brick industries		
Drying	50	28
Preparation of materials, work on kilns and mixers	200	28
General machine work	300	25
Rough forms	300	25
Fibrizing, mixing, shredding, agitating, manufacturing of flat sheets, and corrugated sheets and moulded goods (Applies also to gypsum, chalk, and similar products)	300	25
Pipe and pole manufacturing: mixing, spinning, reinforcing, stripping	200	25
Ceramics and glass industry		
Drying	50	28
Furnace rooms, mixing, bending, annealing ovens, forming	200	28
Enamelling, rolling, pressing, shaping simple parts, glazing, glass blowing	300	25
Preparation, general machine work	300	25
Grinding, engraving, glass polishing, shaping precision parts, manufacture of glass instruments	750	19
Decorative work	500	19
Grinding of optical glass, crystal hand grinding and engraving, work on average goods	750	16
Precision work, e.g. decorative grinding, hand painting	1000	16
Manufacture of synthetic precious stones	1500	16
Finishing, bevelling, etching, silvering	500	22
Brilliant cutting	800	19
Inspection – General	300	19

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Inspection – Fine	800	19
Clay and pottery		
Grinding, filter pressing, kiln rooms, moulding, pressing, cleaning, trimming, firing	400	25
Enamelling, colouring, decorating	600	19
Chemical, plastics and rubber industries		
Remote-operated processing installations	50	-
Processing installations with limited manual intervention	150	28
Chemical		
Hand furnaces, boiling tanks, stationary driers, or gravity crystallizers	150	22
Mechanical driers	150	22
Evaporators, filtration plants	150	22
Mechanical crystallizing, bleaching	200	22
Extractors, percolators, nitrators, electrolytic cells	200	22
Controls, gauges, valves, etc.	100	22
Control rooms: vertical control panelface (vertical illuminance)	400	19
Control desks	400	19
General work area	150	22
Inspection	1000	19
Plastics		
Processing: calendering, extruding	300	25
Moulding: compression, injection	300	25
Sheet: shaping,	300	25
Trimming, machining, polishing	400	25
Colour matching and inspection	1000	19
Rubber		
Fabric preparation creels	200	25
Dipping, moulding, compounding calenders	500	25
Tyre and tube making	400	25
Curing	400	25
Inspection	1000	19
Churches, mosques, synagogues and temples		
General interior	150	25
Pulpit and lectern areas, chancel, choir	200	22
Altar, communion table	200	22
Vestries	200	22
Courtrooms		
Seating	200	22

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Court	500	25
Dye works		
Reception, "grey" perching	600	25
Wet processes	300	22
Dry processes	300	22
Dyers office	800	19
Final perching	2000	16
Educational buildings		
Playschool room	300	19
Nursery class	300	19
Nursery craft room	300	19
Classrooms, tutorial rooms	300	19
Classroom for evening classes and adult education	500	19
Lecture hall	500	19
Chalk board (vertical illuminance)	500	19
Demonstration table	500	19
Demonstration table (in a lecture hall)	750	19
Art and craft rooms	500	19
Art rooms in art schools	750	19
Technical drawing rooms	750	16
Practical rooms and laboratories	500	19
Teaching workshops	500	19
Music practice rooms	500	19
Computer practice rooms	500	19
Language laboratories	300	19
Preparation rooms and workshops	500	22
Student common rooms and assembly halls	200	22
Assembly hall for exams	500	22
Teachers' rooms	300	22
Library shelves, stacks (vertical illuminance)	300	22
Reading tables	400	19
Dormitories	100	25
Corridors and stairs	150	28
Electrical manufacturing		
Cable and wire manufacturing	300	25
Coil winding – large coils	300	25
– medium coils	500	22
– small coils	750	19
Coil impregnating	300	25
Coil and armature processes, general	400	25
Galvanizing	300	25

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Assembly – rough, e.g. large transformers	300	25
– medium, e.g. switchboards	500	22
– fine, e.g. telephones	750	19
Precision, e.g. measuring equipment	1000	16
Electronic workshops, testing, adjusting	1500	16
Electricity generating stations		
Turbine halls (operating floor)	300	25
Blowers, auxiliary generators	150	25
Cable, screens, and transformer chambers	100	25
Cable tunnel, covered walkways, storage tanks	50	25
Battery and charging equipmentrooms	150	25
Coal and ash handling	100	28
Boiler rooms	100	28
Boiler front (operating floor)	150	25
Between boilers (operating floor), stairs, galleries, operating platforms, and precipitator high-voltage chamber	150	25
Pulverizers, feeders, ash-plants, conveyors, (tunnel, junction tower)	100	25
Overland conveyor housing walkways	100	25
Boiler house and turbine house basements	150	25
Pump houses and rooms, water treatment plant	150	25
Control rooms, control panel face (vertical illuminance)	300	19
Control desks with visual display units	400	19
Rear of control panels	150	22
Computer rooms	500	19
Switch houses and rooms	200	22
Relay and telecommunicationsrooms	300	25
Nuclear reactors, steam raising plant, reactor areas, boilers, galleries	200	25
Gas circulator bays	200	25
Reactor charge/discharge face	200	25
High-voltage substations (indoor)	200	25
Entertainment		
Cinemas		
Projection room	200	22
Corridors, stairs	150	22
Foyers	100	25

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Auditoriums (other than during performances)	100	22
Booking area	300	25
Concert halls		
Foyers	100	25
Auditoriums (other than during performances)	100	25
Platforms	200	
Stairs and corridors	150	22
Booking offices	300	25
Multi-purpose halls		
General	300	22
Theatres		
Foyers	150	25
Auditoriums (other than during performances)	100	25
Corridors, stairs	150	22
Fire stations		
Appliance rooms	150	25
Food industry		
Workplaces and zones in breweries, malting floor, area for washing, barrel filling, cleaning, sieving, peeling, cooking in preserve and chocolate factories, fermentation cellars	200	25
Sorting and washing of products,milling, mixing, packing	300	25
Workplaces and zones in slaughter houses, butcheries, dairies, mills, filtering floors	500	25
Cutting and sorting of fruit and vegetables	300	25
Manufacturing of delicatessen foods, kitchens	500	22
Inspection of glasses and bottles, product control, trimming, sorting, decoration	500	22
Laboratories	500	19
Colour inspection	1000	16
Canning and preserving		
Inspection of produce	500	22
Preparation, kettle areas, mechanical cleaning, dicing, trimming	400	25
Retorts for canned and bottledgoods	200	25
High-speed labelling lines	400	25

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Can inspection	400	22
Automatic processes	200	25
Sugar refinery		
General workplaces and zones	200	25
Crushing, settling, evaporating, boiling, curing, drying, packing	200	25
Centrifuging, metering, filtering, condensing	200	25
Panning, mixing, drying	300	25
Foundries and metal casting		
Man-size underground tunnels, cellars	50	28
Platforms	100	25
Sand preparation	200	25
Dressing rooms	200	25
Workplaces at cupola and mixer	200	25
Casting bay	200	25
Shake out areas	200	25
Machine moulding	200	25
Hand and core moulding	300	25
Die casting	300	25
Model building	500	22
Furniture industry		
Raw material store	100	25
Finished goods store	100	25
Wood machining and assembly	300	22
Rough sawing and cutting	200	25
Machining, sundry and assembly of components	350	22
Cabinet making		
Veneer sorting and preparation	500	22
Veneer pressing	400	22
Marquetry, inlay work	750	22
Components store	100	25
Fitting, final inspection	500	22
Upholstery		
Cloth inspection	800	22
Filling, covering	500	22
Slipping	500	22
Cutting, sewing	500	22
Mattress making		
Assembly	400	22
Tape edging	500	22
Tool rooms		
General	300	25
Benches	400	22

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Spray booth		
Colour finishing	600	22
Clear finishing	400	22
Joinery		
Bench gluing, assembly	300	25
Machine turning, fluting, dressing, rebating, grooving, cutting, sawing, sinking	500	19
Quality control	1000	19
Gas works		
Retort houses, oil gas plants, water gas plants, purifiers, coke screening and coke handling plants	50	28
Governor, meter, compressor, booster, exhauster houses	250	25
Hat making		
Stiffening, braiding, cleaning, refining, forming, pouncing	300	22
Flanging, finishing, ironing	400	22
Inspection	1000	19
General work area	400	22
Health care premises		
Waiting rooms	200	22
Stairs and corridors during the day	200	22
Stairs and corridors at night	50	22
Day rooms	200	22
Casualty and outpatient departments	200	19
Staff office	500	19
Staff rooms	300	19
Wards		
General lighting	100	19
Reading lighting	300	19
Simple examination	300	19
Examination and treatment	1000	19
Night lighting, observation lighting	5	19
Bathrooms and toilets for patients	200	22
Examination room general	500	19
Reading and colour vision test with vision charts	500	16
Scanners with image enhancers and television systems	50	19
Dialysis rooms	500	19
Dermatology rooms	500	19
Dispensaries	400	19
Endoscopy rooms	300	19
Plaster rooms	500	19
Medical baths	300	19

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Massage and radiotherapy rooms	300	19
Pre-op and recovery rooms	500	19
Operating theatre	1000	19
Operating cavity	10 000	
Intensive care		
General lighting	100	19
Simple examination	300	19
Examination and treatment	1000	19
Night watch	20	19
Sterilization rooms	300	22
Disinfection rooms	300	22
Autopsy rooms and mortuaries	500	19
Autopsy table and dissecting table	5000	
Dentistry		
General lighting	500	19
At the patient	1000	
Operating cavity	5000	
White teeth matching	5000	
Colour inspection (laboratories)	1000	19
Hosiery and knitwear		
Circular and flat knitting machines, universal winders, cutting out, folding and pressing	400	22
Lock-stitch and overlocking machines	500	22
Mending – Light goods	1000	19
Mending – Dark goods	1500	19
Examining and hand-finishing lightgoods	600	19
Examining and hand-finishing dark goods	1000	19
Linking or running on	500	19
Iron and steel works		
Production plants without manual intervention	50	28
Production plants with occasional manual intervention	150	28
Production plants with continual manual intervention	200	25
Slab store	50	28
Furnaces	200	25
Mill train, coiler, shear line	300	25
Control platforms, control panels	300	22
Testing, measurement and inspection	500	22

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Underground man-sized tunnels, belt sections, cellars, etc.	50	28
Slab yards, melting shops, ingot stipping, soaking pits, blast furnaces, work areas, pickling and clearing lines, mechanical pump houses, slabbing and large section rolling mills	100	28
Mould preparation, light section wire and cold strip mills, mill motor rooms, slab and bloom inspection and conditioning, sheet and plate finishing, tinning, galvanizing and roll shops	100	28
Inspection	300	25
Tin plate inspection and pulpits (control rooms)	500	22
General work areas	200	25
Inspection areas		
Rough work, e.g. counting, rough checking of stock parts, etc.	300	25
Medium work, e.g. "go" and "no-go" gauges	400	22
Subassemblies	400	22
Fine work, e.g. radio and telecommunication equipment, calibrated scales, precision mechanisms, instruments	600	19
Very fine work, e.g. gauging and inspection of small intricate parts	1200	19
Minute work	1200	19
Jewellery manufacturing		
Working with precious stones	1500	16
Manufacturing of jewellery	1000	16
Watchmaking (manual)	1500	16
Watchmaking (automatic)	500	19
Fine processes	800	19
Minute processes	4000	10
Gem cutting, polishing	1500	19
Laboratories and test rooms		
General laboratories, balance rooms	500	19
Electrical and electronic instrument laboratories	500	19
Calibration scales, precision mechanical instruments	700	19
Laundries and dry cleaning		
Goods receiving, marking and sorting	300	25

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Washing and dry cleaning	300	25
Ironing, pressing	300	25
Inspection and repairs	750	19
Leather industry		
Work on vats, barrels, pits	200	25
Fleshing, skiving, rubbing, tumbling of skins	300	25
Saddlery work, shoe manufacture, sewing, polishing, shaping, cutting, punching	500	22
Sorting and grading	1000	19
Leather dyeing (machine)	500	22
Glove making	500	22
Clicking and closing, preparation operations	800	22
Cutting tables and presses, stitching	1000	22
Bottom stock preparation, lasting and bottom finishing	800	22
Shoe rooms	800	22
Quality control	1000	19
Inspection	1000	16
Libraries		
Shelves and stacks (vertical illuminance)	300	22
Carrels, reading rooms, newspapers and magazines, reading tables, counters	500	19
Binding	500	22
Cataloguing, sorting, stock rooms	300	22
General work areas	300	22
Lifts		
Car interior	100	
Motor room	500	25
Material handling premises		
Wrapping, packing and labelling	200	28
Sorting stock	200	
Metal working and processing		
Open die forging	200	25
Drop forging, welding, cold forming	300	25
Rough and average machining, tolerances > 0,1 mm	300	22
Precision machining, grinding, tolerances < 0,1 mm	500	19
Scribing, inspection	750	19
Wire and pipe drawing, shapes	300	25
Plate machining > 5 mm	200	25
Sheet metal-work < 5 mm	300	25

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Tool making, cutting equipment manufacture	750	19
Assembly		
Rough	200	25
Medium	300	25
Fine	500	22
Precision	750	19
Galvanizing	300	25
Surface preparation and painting	750	25
Template and jig making, precision mechanics, micro-mechanics	1000	19
Blacksmith		
General work areas	250	28
Tempering	200	25
Machining and fitting		
Rough bench and machine work	200	28
Medium bench and machine work, ordinary automatic machines, rough grinding, medium buffing and polishing	400	25
Plating		
Vats and baths	400	22
Final buffing and polishing	600	22
Sheet metal		
Bench work, pressing, punching, shearing, stamping, spinning	300	25
Sheet inspection	500	25
Structural steel fabrication		
General	200	28
Marking off	400	28
Welding and soldering		
Gas and arc welding	250	28
Medium soldering, brazing and spot welding, e.g. domestic hardware	350	25
Fine soldering and spot welding, e.g. instruments, radio set assembly	800	22
Very fine soldering and spot welding, e.g. printed circuits	1500	19
Museums and art galleries		
General	200	16
Offices		
Entrance halls and reception areas	200	22
Corridors and passages	200	22
Conference rooms, general offices, typing and filing	500	19
Computer and business machine operation	500	19
Copying, circulation, etc.	300	19

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Reception desk	300	22
Archives	200	25
Writing, reading, data processing	500	19
Technical drawing	750	16
CAD workstation	500	19
Paint industry		
General automatic processes	200	25
Special batch mixing	400	22
Colour matching	600	19
Paint shops and spray booths		
Rubbing, dipping, ordinary painting, spraying and finishing	400	22
Fine painting, spraying and finishing	700	22
Re-touching and matching	1000	22
Paper industry		
Pulp mills, edge runners	200	25
Paper manufacturing and processing, paper and corrugating machines, cardboard manufacturing	300	25
Paper and board making, machine houses, calendaring, preparation plants, cutting, trimming, finishing	300	25
Inspection and sorting (overhauling)	400	25
Paper converting process, general	300	25
Associated printing	300	22
Paper bag, carton, and box making		
Corrugated boards, cartons, containers and paper box manufacturing	200	25
Coating and laminating process	300	22
Associated printing	300	22
Pharmaceutical and fine chemical		
Raw material storage	200	28
Control laboratories and testing	500	19
Pharmaceuticals manufacturing, grinding, granulating, mixing and drying, tableting, sterilizing and washing	500	25
Preparation of solutions and filling, labelling, capping, inspection	400	25
Fine chemical plant processing	200	25
Fine chemical finishing	500	25
Photographic		
Safety-light darkrooms	10	
Post offices		
Circulation	200	22

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Counters	500	22
Sorting of mail	500	25
Printing industry		
Cutting, gilding, embossing, block engraving, work on stones and platens, printing machines, matrix making	500	19
Paper sorting and hand printing	500	19
Type setting, re-touching, lithography	1000	19
Colour inspection in multi-coloured printing	1500	16
Steel and copper engraving	2000	16
Standard bookbinding work, e.g. folding, sorting, gluing, cutting, embossing, sewing	500	22
Type foundries: dressing type, hand and machine casting	300	25
Front assembly, sorting	500	22
Printing plants: machine composition, imposing stones	300	25
Presses	400	25
Composition room	400	19
Proofreading casting	500	19
Electrotyping: block making, electroplating, washing, backing	500	25
Moulding, finishing, routing	400	25
Photoengraving: Block making, etching, masking	400	25
Finishing, routing	500	25
Colour printing: inspection area	1000	19
Refrigeration		
Chilling and cold rooms, ice-making	200	25
Restaurants and hotels		
Reception/cashier desk, porter's desk	300	22
Kitchen	500	22
Restaurant, dining room, function room, bars	200	22
Self-service restaurant	200	22
Buffet	300	22
Conference rooms	500	19
Corridors	100	25
Stairs	150	25
Entrance halls	200	
Lounges	150	19
Bedrooms: general	100	
Dressing table, headboards, etc.	200	

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Billiard rooms: general	200	
Card rooms	300	22
Laundries	300	22
Goods and passenger lifts	100	
Cloakrooms and toilets	150	
Bathrooms	100	
Self-service counters	300	22
General work areas	300	22
Retailing		
Sales areas (small)	300	22
Sales areas (large)	500	22
Till area, wrapper table	500	19
General work areas	300	22
Stairs and corridors	200	22
Stockrooms	200	25
Soap manufacturing		
All processes e.g. kettle houses and ancillaries, batch or continuous soap rooting, soap stamping, etc.	300	25
General areas	300	25
Auto processes	200	25
Control panel face (vertical illuminance)	200	25
Product processing and packing	200	25
Telephony		
Manual exchange rooms (on desk)	300	22
Main distribution frame rooms in automatic exchanges	300	25
Battery rooms	150	25
Textile industry		
Workplace and zones in baths, bale opening	200	25
Carding, washing, ironing, drawing, combing, sizing, card cutting, pre-spinning	300	22
Spinning, plying, reeling, winding, warping, weaving, braiding, knitting	500	22
Sewing, fine knitting, taking up stitches	750	22
Manual design, drawing patterns	750	22
Finishing, dyeing	500	22
Drying room	100	28
Automatic fabric printing	500	25
Burling, picking, trimming	1000	19
Colour inspection, fabric control	1000	16
Invisible mending	1500	19

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Hand tailoring	1000	19
Cotton or linen		
Bale breaking, blowing, carding	300	25
Roving, slubbing, spinning (ordinary counts), winding, hackling, spreading, cabling	300	22
Warping, slashing, dressing and dyeing, doubling (fancy), spinning (fine counts)	300	25
Healding (drawing in)	800	19
Weaving: patterned cloths	800	19
Weaving: plain "grey" cloths	800	19
Cloth inspection	1000	19
Jute		
Weaving, spinning flat, Jacquard carpet looms, cop winding	300	25
Yarn calender	400	25
Silk or synthetics		
Soaking, fugitive tinting, conditioning or setting of twist	500	25
Spinning	500	25
Winding, twisting, rewinding and coning, quilling, slashing	350	25
Warping	400	25
Healding (drawing in)	800	19
Weaving	800	19
Inspection	1000	19
Woollens		
Preparing, raising, brushing, pressing, backwashing, gilling, grabbing, and blowing	300	25
Blending, carding, combing (white), tentering, drying, cropping	300	25
Spinning, roving, winding, warping, combing (coloured), twisting	500	25
Healding (drawing in)	800	19
Weaving: fine worsteds	800	19
medium worsteds, fine woollens	500	19
heavy woollens	400	19
burling and mending	800	19
Perching: "Grey"	800	19
Finals	2000	19
Tobacco		
Primary manufacturing: weighing, blending, conditioning, threshing, cutting	250	22
Cigarette making machines, filter plug makers	500	22

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Catcher (inspection)	1000	22
Hand processes	750	
Cigarette or tobacco packing	600	22
Transport terminals, bus, rail, sea		
Reception areas (desks), customs and immigration halls, lounges, luggage collection, security check	300	22
Check-in counters, customs and passport control	500	22
Circulation, platforms, dispatch	150	25
Vehicle construction/servicing		
Body work and assembly	500	22
Painting, spraying chamber, polishing chamber	750	22
Painting: touch-up, inspection	1000	16
Upholstery manufacture	1000	19
Final inspection	1000	19
General assemblies, chassis assemblies, car assembly, trim shops, body subassemblies	400	25
Final inspection	500	22
Servicing		
Parking areas	50	28
Washing, polishing, greasing	200	25
Servicing pits	200	22
Repairs	350	22
Workbenches	400	22
Fuel pumps	200	28
Warehousing		
Small material, racks, packing and dispatch (vertical illuminance)	200	25
Issue counters	300	25
Loading bays, large material	100	28
Inactive storage and automatic stores	50	28
Woodworking and sawmilling		
Rough sawing and bench work, sizing, planning, rough sanding	250	25
Medium machine and bench work, gluing, cooperage	300	25
Fine bench and machine work, fine sanding and finishing	500	22
Automatic processing, e.g. drying, plywood manufacturing	50	28
Steam pits	150	28
Saw frame	300	25

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Table 6: Minimum maintained illuminance values for interior workplaces not listed in Table 5.

Type of area, task or activity	Illuminance range (lux)
Outdoor circulation and work areas	20 – 50
Circulation areas, simple orientation or short temporary visits	50 – 150
Rooms not used continuously for working purposes	100 – 200
Tasks with simple visual requirements	200 – 500
Tasks with medium visual requirements	300 – 750
Tasks with demanding visual requirements	500 – 1 000
Tasks with difficult visual requirements	750 – 1 500
Tasks with special visual requirements	1 000 – 2 000
Performance of very exacting visual tasks	> 2 000

Table 7: Minimum maintained illuminance values for exterior workplaces.

Areas to be lit, operation performed	Minimum maintained average illuminance (lux)		Minimum uniformity ratio	Minimum uniformity ratio	Maximum glare rating
	Horizontal Ehav	Vertical Evav	Ehmin/Ehav	Ehmin/Ehmax	GRmax.
Airports					
Apron parking areas	20	20	0,25	0,2	50
Areas adjacent to apron	10		0,25	0,2	50
Taxiway between aprons	5	15	0,25	0,2	50
Building sites					
Work area or task					
Very rough work	20		0,25	0,125	55
Rough work	50		0,4	0,2	50
Accurate work	100		0,4	0,2	45
Fine work	200		0,5	0,2	45
Traffic areas Pedestrian passages, vehicle turning, loading and unloading points	50		0,4	0,2	50

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Safety and security General lighting on building site, element mould, timber and steel storage, building foundation hole and working areas on sides ofthe hole	50		0,4	0,2	50
Canals and locks Outport embankment ballasting		1 to 10			
Waiting quays	10		0,25	0,125	50
Locking chamber walls: • Wall height below 10 m • Wall height over 10 m		25			
Filling and service stations					
Entry and exit drive ways: light environment (cities) dark environment	 50 20		 0,4 0,4	 0,2 0,2	 45 45
Meter reading area: light environment (cities) dark environment	 300 150		 0,5 0,5	 0,333 0,333	 45 45
Air pressure and water checking points and other service areas	75		0,4	0,2	45
Vehicle parking and storage area (see also parking areas)	5		0,25	0,1	50
Harbours					
Work area or task					
Cargo handling, loading and unloading	20		0,25	0,125	55
Coupling of hoses and pipes	50			0,167	50
Traffic area					
Walking passages exclusively for pedestrians	10		0,25	0,125	50
Passengers areas in passenger harbours	50		0,4	0,2	50
Vehicle traffic areas	20		0,4	0,167	45
Dangerous part of walkways and driveways	50		0,4	0,2	45
Safety and security					
General lighting	10		0,25	0,125	50

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Medium risk areas	20		0,4	0,167	50
High risk areas	50		0,4	0,2	45
Industrial yards and storage areas					
Work area or task					
Very rough work	20		0,25	0,125	55
Rough work	50		0,40	0,2	50
Accurate work	100		0,50	0,33	45
Fine work	200		0,50	0,33	45
Traffic areas					
Walkways exclusively for pedestrians	5		0,25	0,1	50
Traffic areas for slowly moving vehicles (max. 10 km/h)	10		0,4	0,2	50
Regular vehicle (max. 40 km/h)	20		0,4	0,2	45
Safety and security					
Low risk areas	5		0,25	0,125	55
Medium risk areas	20		0,4	0,167	50
High risk areas	50		0,4	0,2	45
Parking lots					
Parking lots and pedestrian areas					
Light traffic	5		0,25	0,1	55
Medium traffic	10		0,25	0,125	50
Heavy traffic	20		0,25	0,125	55
Vehicle driveways					
Light traffic	5		0,25	0,1	50
Medium traffic	10		0,4	0,167	50
Heavy traffic	20		0,4	0,2	55
Petrochemical industries and otherhazardous industries					
Working area or task					
Very rough work	20		0,25	0,125	55
Rough work	50		0,4	0,2	50
Accurate work	100		0,4	0,2	45
Fine work	200		0,5	0,33	45

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Traffic areas					
Walkways exclusively for pedestrians	5		0,25	0,1	50
Traffic areas for slowly moving vehicle traffic (max. 10 km/h)	10		0,4	0,167	50
Regular vehicle traffic (max. 40 km/h)	20		0,4	0,2	45
Safety and security					
Low risk areas	10		0,4	0,167	50
Medium risk areas	20		0,4	0,167	50
High risk areas	50		0,4	0,2	45
Fuel loading and unloading sites	100		0,4	0,2	45
Power, electricity, gas and heat plants					
Work area or task					
Very rough work	20		0,25	0,125	55
Rough work	50		0,4	0,2	50
Accurate work	100		0,4	0,2	45
Fine work	200		0,5	0,33	45
Traffic areas					
Pedestrian movements within electrically safe areas	5		0,25	0,1	50
Traffic areas for slowly moving vehicles traffic (max. 10 km/h)	10		0,4	0,167	50
Regular vehicle traffic (max. 40 km/h)	20		0,4	0,2	45
Safety and security					
Low risk areas	5		0,25	0,1	55
Medium risk areas	20		0,4	0,167	50
High risk areas	50	50	0,4	0,2	45
Railways areas					
Passenger areas					
Open platforms, small stations	10		0,25	0,125	50
Open platforms, medium-size stations	20		0,4	0,33	45
Open platforms, large stations	50		0,4	0,33	45
Covered platforms, small stations	50		0,4	0,33	45
Covered platforms, large stations	100		0,5	0,33	45
Stairs, small and medium-size	50		0,4	0,33	45

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stations					
Stairs, large stations	100		0,5	0,33	45
Walkways, small and medium-size stations	20		0,4	0,167	50
Walkways, big stations	50		0,4	0,2	45
Freight areas					
Freight track, temporary, or quick operation	10		0,25	0,125	50
Freight track, continuous operation	20		0,4	0,167	50
Open platforms	20		0,4	0,167	50
Covered platforms, temporary or quick operation	50		0,4	0,33	45
Covered platform, continuous operation	100		0,5	0,33	45
Traffic areas for mobile cranes and cars	20		0,4	0,167	50
Container handling areas	20		0,5	0,167	50
Container storage areas	10		0,25	0,125	50
Track for trailer loading on wagon	20		0,4	0,167	50
Railway yards					
Flat marshalling yards					
switching area	10		0,25	0,125	50
central area of yard, temporary or quick	10		0,4	0,167	50
central area of yard continuous operation	15		0,4	0,2	45
turn-out track, uncoupling area	10		0,5	0,33	50
Retarder marshalling yards					
switching area	10		0,25	0,125	50
central area of yard	15		0,4	0,2	45
Hump area					
wagon inspection pit		100			
uncoupling area	50	20	0,4	0,33	45
hump crest, wagon numbering reading	20	50	0,4	0,33	45
Classification yards					
a) Hard operated wagon rolling, switching and braking					

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braking rail with brake shoe	20		0,4	0,33	45
switching area, head end	15				
brake area with brake shoe	15		0,4	0,2	45
b) Automatic wagon rolling and switching					
retarders		50		0,33	45
continuous retarders	15		0,4	0,2	45
switching area, head end	15		0,4	0,2	45
central area of classification yard	15		0,4	0,2	45
Switching area, central area of yard	10		0,25	0,125	50
Tracks on passenger station areas Switching area, central area of yard	10		0,25	0,125	50
Servicing and stabling tracks for cars, trains and locomotives					
passenger car cleaning area	10		0,25	0,125	50
passenger car servicing area	20	20	0,4	0,2	45
passenger car washing area	20	20	0,4	0,2	45
stabling tracks for wagons and cars	5		0,25	0,125	50
Stabling tracks for locomotives	20		0,4	0,2	50
Level crossings	20		0,4	0,2	45
Saw mills					
Work area or task					
Very rough work	20		0,25	0,125	55
Rough work	50		0,4	0,33	50
Accurate work	100		0,4	0,2	45
Fine work	200		0,5	0,33	45
Very fine work	300		0,50	0,25	45
Traffic areas					
Walkways exclusively for pedestrians	5		0,25	0,1	50
Traffic areas for slowly moving vehicle traffic (max. 10 km/h)	10		0,25	0,125	50
Regular vehicle traffic (max. 40 km/h)	20		0,4	0,2	45
Safety and security					

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Small risk areas	5		0,25	0,1	55
Medium risk areas	10		0,4	0,167	50
High risk areas	50		0,4	0,2	50
Shipyards and docks					
Work area or task					
Very rough work	20		0,25	0,125	55
Rough work	50		0,25	0,2	50
Accurate work	100		0,4	0,2	45
Fine work, mounting of electrical and mechanical components	200		0,5	0,33	45
Traffic areas					
Walking passages exclusively for pedestrians	5		0,25	0,125	55
Traffic areas for slowly moving (max. 10 km/h)	10		0,4	0,2	50
Regular vehicle traffic (max. 40 km/h)	20		0,4	0,167	50
Safety and security					
General lighting on shipyard area, storage areas for prefabricated goods	20		0,25	0,125	55
Water and sewage plants					
Work area or task					
Very rough work	20		0,25	0,125	55
Rough work	50		0,4	0,2	45
Accurate work	100		0,4	0,2	45
Fine work	200		0,5	0,33	45
Traffic areas					
Walkways exclusively for pedestrians	5		0,25	0,1	55
Traffic areas for slowly moving vehicle traffic (max. 10 km/h)	10		0,40	0,167	55
Regular vehicle traffic (max. 40 km/h)	20		0,40	0,2	45
Safety and security					

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Low risk areas	5		0,25	0,1	55
Medium risk area	20		0,4	0,167	50

Table 8: Minimum maintained illuminance values for exterior workplaces not mentioned in Table 7.

Work	**Minimum maintained average horizontal illuminance** Ehav (lux)	**Minimum uniformity ratio**		**Glare limit** GRmax
		Emin/Eav	Emin/Emax	
Very rough	20	0,25	0,125	55
	20	0,4	0,1666	50
	20	0,4	0,2	45
	20	0,4	0,333	45
	50	0,4	0,2	50
Rough	50	0,4	0,2	45
	50	0,4	0,333	45
Accurate	100	0,4	0,2	45
	100	0,5	0,333	45
Fine	200	0,5	0,333	45

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DEPARTMENT OF EMPLOYMENT AND LABOUR

NO. 2666 **21 October 2022**

OCCUPATIONAL HEALTH AND SAFETY ACT, 1993
DRAFT NOISE-INDUCED HEARING LOSS REGULATIONS, 2022

INVITATION OF PUBLIC COMMENTS ON DRAFT NOISE-INDUCED HEARING LOSS REGULATIONS

I, **THEMBELANI WALTERMADE NXESI**, Minister of Employment and Labour, hereby give notice that I intend, in terms of section 43 of the Occupational Health and Safety Act, 1993 (Act No. 85 of 1993), to make the regulations in the schedule.

Interested persons who wish to comment on the draft regulations are invited to do so in writing within 90 days from the date of publication of this notice, in the prescribed format (see annexure A).

All representations and comments must be sent to the Director-General of the Department of Employment and Labour.

By hand: The Department of Employment and Labour – Attention: Warren Mallon

Laboria House

215 Francis Baard Street

Pretoria

By post: The Director General

Department of Employment and Labour – Attention: Warren Mallon

Private Bag X117, Pretoria 0001

By email: warren.mallon@labour.gov.za or Alukhethi.Munzhedzi@LABOUR.gov.za

MR TW NXESI, MP
MINISTER OF EMPLOYMENT AND LABOUR
DATE: 17/09/2022

Annexure A

Comments / inputs on the Draft Noise-Induced Hearing Loss Regulations as proposed by the Department of Employment and Labour.

Kindly provide inputs, corrections and/ or comments in writing on the proposed Draft Noise-Induced Hearing Loss Regulations in the following format:

Name and Surname:										E- mail	Phone number:
Company name (if applicable)											
Government		Industry		Union		Consultancy		Private		Other	

1	Regulation and/or sub regulation from the draft, referring to	Comment/ Input/ Correction/ Proposal Plus motivation
Will the proposed regulation have an impact on any other regulation? If so, which regulation and what will be the impact?		
2	Regulation and/or sub regulation from the draft, referring to	Comment/ Input/ Correction/ Proposal Plus motivation
Will the proposed regulation have an impact on any other regulation? If so, which regulation and what will be the impact?		
3	Regulation and/or sub regulation from the draft, referring to	Comment/ Input/ Correction/ Proposal Plus motivation
Will the proposed regulation have an impact on any other regulation? If so, which regulation and what will be the impact?		

General comments:	

Signature: _____

Date: _____

Provide inputs to Department of Employment and Labour by e-mailing this completed document to warren.mallon@labour.gov.za and Alukhethi.Munzhedzi@LABOUR.gov.za

Noise-Induced Hearing Loss Regulations

SCHEDULE

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Definitions

1. In these Regulations any word or expression to which a meaning has been assigned in the Act shall have the meaning so assigned and, unless the context indicates otherwise-

"approved noise inspection authority" means an inspection authority approved by the chief inspector of the Department of Employment and Labour for the monitoring of noise in the workplace;

"Chief Director: Provincial Operations" means the provincial director as defined in regulation 1 of the General Administrative Regulations, 2003, published as Government Notice R.929 in Gazette No. 25129 of 25 June 2003;

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"Competent person: audiometric testing" means-

(a) for screening audiometry;

(i) a person registered in terms of the Health Professions Act, 1974 (Act No. 56 of 1974), with the Health Professions Council of Council of South Africa in any of the following categories:

(aa) ENT (ear, nose and throat specialist);

(bb) speech therapist;

(cc) audiologist; or

(dd) occupational medicine practitioner;

(ii) a person with a qualification in audiometric techniques obtained from an institution registered with the South African Qualification Authority or any of its structures in terms of the South African Qualifications Authority Act, 1995 (Act No. 58 of 1995), and registered with the South African Society for Occupational Health Nursing (SASOHN); and

(b) for diagnostic audiology;

(i) a person registered in terms of the Health Professions Act, 1974 (Act No. 56 of 1974), with the Health Professions Council of Council of South Africa in any of the following categories:

(aa) ENT (ear, nose and throat specialist); or

(bb) an audiologist;

"competent person: risk assessment" in relation to noise, means a person who–

(a) has in respect of the work or task to be performed the required knowledge, training and experience in noise and, where applicable, qualifications that includes noise: provided that where appropriate qualifications and training are registered in terms of the provisions of the National Qualifications Framework Act, 2008 (Act No. 67 of 2008), those qualifications and that training must be regarded as the required qualifications and training; and

(b) is familiar with the Act and the applicable regulations made under the Act;

"exposure" means the extent to which a person is exposed to noise at the workplace as determined by the noise risk assessment, and includes potential or accidental exposure, and exposed has a derivative meaning;

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"HPDs or hearing protective devices" means an ear-muff/s or ear-plug/s which conform to SANS 1451 and SANS 50458;

"$L_{Req,8h}$ or 8-hour rating level" means the rating level normalized to a nominal 8-hour working day and should be A weighted;

"L_{peak} or peak noise level" means the peak level of the sound pressure wave with no time constant applied and should be C weighted;

"noise" means unwanted sound that may cause annoyance, interference with speech or communication and/or hearing impairment;

"noise action level" means the value of the $L_{Req,8h}$ at or above 82 dB(A) for continuous noise and/or L_{peak} at or above 135 dB(C) for impulse noise at which specified actions or counter measures must be taken;

"noise exposure monitoring" means the systematic process of measuring the magnitude, frequency and duration of exposure to noise;

"noise-rating limit" means the value of the $L_{Req,8h}$ at or above 85 dB(A) for continuous noise and/or L_{peak} at or above 137 dB(C) for impulse noise at which specified actions or counter measures must be taken;

"noise risk assessment" means an assessment and risk categorisation of exposure to noise in the workplace;

"noise technical committee" means a committee established in terms of regulation 16;

"ototoxic chemical agents" means chemical agents that damage the ear and cause hearing loss;

"SANS 10083" means the South African National Standard Code of Practice for the Measurement and Assessment of Occupational Noise for Hearing Conservation Purposes;

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"SANS 1186-1" means the South African National Standard Code of Practice for Symbolic Safety Signs – Part 1: Standards signs and general requirements;

"SANS 1451" means the South African National Standard Code of Practice for Hearing Protection;

"SANS 50458" means the South African National Standard Code of Practice for the recommendations for selection, use, care and maintenance – guidance document;

"the Act" means the Occupational Health and Safety Act.1993 (Act No. 85 of 1993);

"vulnerable employee" means an employee who is at a higher risk of injury, disease or complications;

Scope of Application

2. (1) These Regulations will apply to:

(a) any employer or self-employed person at any workplace under their control, where persons are exposed to continuous or impulse noise at or above the applicable noise action level; and

(b) a designer, manufacturer, importer or supplier of machinery or plant for use at a workplace;

(2) With the exception of regulation 4 (6), the provision of regulation 4 shall not apply to a self-employed person.

Exposure to noise

3. Subject to regulations 9 and 10, an employer or self-employed person must ensure that no person entering the workplace under their control will be exposed to noise at or above the noise action level.

Information, instruction and training

4. (1) An employer who undertakes work which exposes an employee to noise must inform and consult the relevant health and safety representatives or health and safety committee established for that workplace of the intention to conduct:

(a) a noise risk assessment contemplated in regulation 7;

(b) noise exposure monitoring contemplated in regulation 8; and

(c) training contemplated in regulation 4 (3).

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(2) An employer who undertakes work which exposes an employee to a noise must inform the relevant health and safety representatives or health and safety committee for that workplace of the intention to conduct medical surveillance contemplated in regulation 8;

(3) An employer must inform the relevant health and safety representatives or health and safety committee for that workplace of the documented outcomes of the:

(a) noise risk assessment contemplated in regulation 7;

(b) noise exposure monitoring contemplated in regulation 8; and

(c) medical surveillance contemplated in regulation 9;

(4) An employer must establish, for all employees who may be exposed to noise at or above the noise action level, a training programme with regard to these regulations;

(5) The training programme contemplated in regulation 4 (4) must be conducted prior to the placement of the relevant employee;

(6) The training programme contemplated in regulation 4 (4) with regard to these regulations, must focus on:

(a) the content and scope of these Regulations;

(b) the potential sources of exposure to noise;

(c) ototoxic chemical agents acting synergistically with noise to cause hearing loss;

(d) the potential risks to health and safety caused by exposure to noise;

(e) the differing effects of exposure to physical agents to men, women, young employees and vulnerable employees, where such difference may exist;

(f) the measures taken by the employer to protect an employee against the adverse effects of exposure to noise;

(g) the necessity for the compliance with noise control measures in all areas, including the correct use, maintenance and limitations of HPDs;

(h) the precautions to be taken by the employees to protect themselves against the adverse effects associated with the exposure;

(i) the noise risk assessment, the purpose of noise exposure monitoring and the necessity for medical surveillance;

(j) the noise action level and noise-rating limit for hearing conservation and their meaning;

(k) the procedures for reporting, correcting and replacing defective noise control measures including HPDs;

(l) any additional matters contemplated in regulations 5 and 9; and

(m) access to records of noise risk assessment, noise exposure monitoring and personal medical records;

(7) Refresher training must be conducted annually;

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(8) An employer or self-employed person must ensure, as far as is reasonably practicable, that mandatories or persons other than employees who may be affected by noise exposure at the workplace are informed and trained in accordance with regulation 4 (4); and

(9) An employer must keep a record of employee training in terms of this regulation.

Duties of persons who may be exposed to noise

5. (1) Any person who is or may be exposed to noise at or above the noise action level must obey any lawful instruction by the employer or self-employed person or by anyone authorized thereto by the employer or self-employed person, regarding:

(a) the use of measures adopted for noise control;

(b) the immediate reporting of defective, damaged or lost noise control measures to the health and safety representative or the employer;

(c) the use of HPDs;

(d) a prohibition to enter or remain in an area where HPDs are required unless the person is authorized to do so and is wearing the required HPDs;

(e) co-operation with the employer in determining personal exposure, which may include the wearing of a sound dosimeter;

(f) the reporting for medical surveillance as required by regulation 9; and

(g) information, instruction and training received as contemplated in regulation 4.

Duties of designers, manufacturers, importers and suppliers

6. (1) Any designer, manufacturer, importer or supplier of machinery or plant for use at work must:

(a) as far as is reasonably practicable, ensure that machinery or plant minimises the exposure to noise;

(b) as far as is reasonably practicable, supply machinery or plant that can be transported, received, stored and handled in a manner that minimises the exposure to noise;

(c) provide information, instruction and training as deemed necessary to minimises the exposure to noise during use of machinery or plant;

(d) as far as is reasonably practicable, install machinery or plant in a manner that minimises the exposure to noise; and

(e) provide information to potential users on the appropriate maintenance of machinery or plant to ensure safe operation and use.

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Noise Risk Assessment

7. (1) An employer or self-employed person must in respect of a workplace under their control cause the noise risk assessment to be done:

(a) within 60-days after the commencement of operations;

(b) thereafter at intervals not exceeding 24-months, to determine if any person may be exposed to noise which is at or above the noise action level; and

(c) by a competent person;

(2) When making the noise risk assessment contemplated in regulation 7 (1), an employer or self-employed person must take into account the following:

(a) the noise sources to which a person may be exposed;

(b) adverse effects that the noise may have on persons;

(c) the extent to which a person may be exposed;

(d) the nature of the work process and any reasonable deterioration in or failure of any control measures;

(e) the presence and extent of exposure to ototoxic chemical agents; and

(f) the presence and extent of exposure to whole body vibration;

(3) The risk assessment conducted in terms of sub-regulation (1) must take into account specific effects of exposure to men, women, young employees and vulnerable employees, where applicable;

(4) An employer must, in terms of the noise risk assessment:

(a) consider any deviations identified by the noise risk assessment and the proposed recommendations; and

(b) develop a documented action plan for the implementation of the recommendations;

(5) An employer or self-employed person must forthwith review a noise risk assessment made in accordance with regulation 7 (1) if:

(a) there is reason to believe that such noise risk assessment is no longer valid;

(b) control measures are no longer efficient;

(c) technological or scientific advances allow for more efficient control methods; or

(d) there has been a significant change in—

(i) work methods;

(ii) the type of work carried out; or

(iii) the type of equipment used to control exposure;

(6) The review of the noise risk assessment contemplated in regulation 7 (5), must be carried out in accordance regulation 7 (2) and (4).

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Noise Exposure Monitoring

8. (1) An employer must ensure that a noise exposure monitoring programme at that workplace is implemented where the noise risk assessment or a review of such assessment indicates that any employee may be exposed to noise at or above the noise action level;

(2) The noise exposure monitoring programme contemplated in regulation 8 (1) must be:

(a) carried out in accordance with the provisions of these regulations;

(b) carried out by an approved noise inspection authority; and

(c) representative of the employees' exposure to noise, in accordance with regulation 8 (3);

(3) In order to comply with regulation 8 (2) (c), an employer must ensure:

(a) that area noise exposure monitoring:

(i) is done, as contemplated in SANS 10083 where a number of employees work in an area of approximately equal noise level;

(ii) is done, as contemplated in SANS 10083, where an employee is working at an approximate fixed location relative to the noise source;

(b) that personal dosimetry monitoring must be done, as contemplated in SANS 10083, for employees who do not have a fixed workplace and move around from one position to another; and

(c) that peak noise levels are monitored, where the noise risk assessment determines that employees may be exposed to impulse noise;

(4) An employer must, in terms of the noise exposure monitoring report, develop a documented action plan for the implementation of the recommendations; and

(5) The employer must ensure that the noise exposure monitoring contemplated in regulation 8 (3) is carried out at least every 24-months.

Medical Surveillance

9. (1) An employer must establish, maintain and document a system of medical surveillance for all employees exposed to:

a) noise at or above the noise-rating limit; or

b) noise at or above the noise action level where there is concomitant exposure to ototoxic chemical agents and/or whole body vibration;

(2) In order to comply with the requirements of regulation 9 (1), medical surveillance must be implemented in conjunction with the Code of Practice for Medical Surveillance for Noise-Induced Hearing Loss, as contemplated in regulation 15.

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Noise Zone

10. (1) An employer or self-employed person must ensure that:

(a) any workplace or part of such workplace is designated as a noise zone, where:

(i) the exposure to noise is at or above the noise action level where there is concomitant exposure to ototoxic chemical agents and/or whole body vibration; or

(ii) the exposure to noise is at or above the noise-rating limit;

(b) a noise zone is clearly demarcated and identified by signage, in accordance with SANS 1186-1, indicating that the relevant area is a noise zone and that HPDs as contemplated in regulation 12 must be worn; and

(c) no person enters or remains in a noise zone unless HPDs are worn.

Control of exposure to noise

11. (1) An employer or self-employed person must ensure that the exposure of a person to noise is either prevented or, where this is not reasonably practicable, adequately controlled;

(2) In order to comply with regulation 11 (1) an employer or self-employed person must, as far as is reasonably practicable, reduce noise exposure to levels below the limits referred to in regulation 10 (1)(a), by implementing a combination of the hierarchy of noise control measures including:

(a) engineering control measures to eliminate or reduce noise at its source, or the modification of the routes by which noise reaches workplaces;

(b) administrative control measures to limit the number of persons exposed and the duration of exposure; and

(c) the use of HPDs as a last resort, if engineering and administrative control measures are insufficient;

(3) An employer must ensure that an employee who is exposed to noise receives information, instruction and training, as contemplated in regulation 4, with regard to the correct inspection, use, and reporting of failures of control measures implemented in regulation 11 (2).

Hearing protective devices

12. (1) Where HPDs are provided, an employer or self-employed person must ensure that HPDs:

(a) reduce exposure to noise:

(i) to below the noise-rating limit; or

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(ii) to below the noise action level where there is concomitant exposure to ototoxic chemical agents and/or whole body vibration;

(b) are selected, used, maintained and stored in accordance with SANS 50458; and

(c) are procured in accordance with SANS 1451;

(2) The employee must, where there is the requirement to use HPDs as contemplated in regulation 12 (1):

(a) inspect, use, wear, store and dispose of the HPDs in accordance with any information, training or lawful instruction given by the employer;

(b) not intentionally misuse or damage the HPDs; and

(c) immediately inform the employer of any damage, defect, or any need to clean or replace any of the HPDs.

Maintenance of control measures

13. (1) Every employer or self-employed person must ensure that any control measure is:

(a) fully and properly used; and

(b) maintained in an efficient state, in good working order and in good repair and cleanliness.

Records

14. (1) An employer or self-employed person must:

a) keep record of the reports for:

(i) training, as contemplated in regulation 4;

(ii) noise risk assessments and action plan, as contemplated in regulation 7;

(iii) noise exposure monitoring and action plan, as contemplated in regulation 8;

(iv) medical surveillance reports, as contemplated in 3.8.7 of the code of practice; and

(v) maintenance of control measures, as contemplated in regulation 13;

(b) keep records, as contemplated in regulation 14 (1)(a) for 40-years;

(c) make the records contemplated in regulation 14 (1)(a) available for inspection by an inspector and relevant health and safety representative or health and safety committee; and

(d) submit all records, as contemplated in regulation 14 (1)(a) to the relevant Chief Director: Provincial Operations, when they cease activity.

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Code of practice

15. (1) The Chief Inspector may, in consultation with the Noise Technical Committee, develop or review approved codes of practice relevant to hearing conservation in the workplace in order to guide and regulate exposure to noise in the workplace.

Noise technical committee

16. (1) The Council must, after consultation with the Minister, establish a noise technical committee which must consist of:

(a) a chairperson designated by the chief inspector from the employees of the Department of Employment and Labour;

(b) one person designated by the chief inspector from the employees of the Department of Employment and Labour;

(c) three persons designated by employer's organisations to represent employers;

(d) three persons designated by employees' organisations to represent the federation of unions;

(e) two persons to represent professional bodies recognised by the chief inspector;

(f) one person representing a higher educational institution;

(g) one person representing occupational medicine; and

(h) persons who are competent in respect of the matters to be dealt with by the noise technical committee who have been co-opted by the committee with the authorisation of the council;

(2) The council must:

(a) appoint members of the noise technical committee for a period that the council may determine at the time of the appointment;

(b) after having afforded a member a reasonable opportunity to respond, discharge such a member at any time, for reasons that are fair and just; and

(c) appoint a new member in the place of a member who is discharged in terms of regulation 16 (2)(b);

(3) The noise technical committee must:

(a) advise the council on noise related matters, including, but not limited to, codes, standards and training requirements;

(b) make recommendations and submit reports to the council regarding any matter to which these Regulations apply;

(c) advise the council regarding any matter referred to the noise technical committee by the council;

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(d) perform any other function for the administration of a provision of these Regulations that may be requested by the council; and

(e) conduct its work in accordance with the instructions and rules of conduct framed by the council.

Offences and penalties

17. Any person who contravenes or fails to comply with any provision of regulations 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14 and 15 shall be guilty of an offence and liable on conviction to a fine or to imprisonment for a period not exceeding 12-months and, in the case of a continuous offence, to an additional fine of R200 for each day on which the offence continues or to additional imprisonment of one day for each day on which the offence continues: Provided that the period of such additional imprisonment shall in no case exceed 90 days.

Withdrawal of regulations

18. XXXX

Short title

19. These Regulations are referred to as the draft Noise-Induced Hearing Loss Regulations, 20XX.

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employment & labour

Department:
Employment and Labour
REPUBLIC OF SOUTH AFRICA

CODE OF PRACTICE FOR MEDICAL SURVEILLANCE

FOR

NOISE-INDUCED HEARING LOSS REGULATIONS

14

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FOREWORD

The Minister's Advisory Council for Occupational Health and Safety gave approval from the establishment of a Technical Committee (TC) to review the Noise-Induced Hearing Loss Regulations of 2003. The TC is constituted of members of organised labour, organised business, specialists in the field of occupational health and safety and the Department of Employment and Labour.

Due to the complex nature of medical surveillance with regard to assessing employees' exposure to occupational noise and the resultant effects, a decision was taken by the TC to produce a Code of Practice for Medical Surveillance for Noise-Induced Hearing Loss. The Code of Practice is a move from a reactive approach to addressing occupational hearing loss, to a proactive approach, that incorporates all requirements of medical surveillance, particularly audiometric testing, and places it into one document.

LEGAL STATUS OF COPs

This Code of Practice is incorporated into the Nose-Induced Hearing Loss regulations of 202X through Regulation 15 of the said regulations.

OBJECTIVES OF THE COP

The objective of the Department of Employment and Labour's Code of Practice for Medical Surveillance in respect of the Noise-Induced Hearing Loss Regulations is to assist employers with the development and implementation of a medical surveillance programme.

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ACRONYMS AND DEFINITIONS

Acronyms

CoP: Code of Practice

HPD: Hearing Protective Device

NIHL: Noise-Induced Hearing Loss

PLH: Percentage Loss of Hearing

STS: Standard Threshold Shift

OHP: Occupational Health Practitioner

OMP: Occupational Medicine Practitioner

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Definitions

"audiogram" means a chart, graph or table indicating the hearing threshold levels of an individual as a function of frequency, (namely 0.5, 1, 2, 3, 4, 6 and 8 kHz), as determined during a measurement of a person's hearing threshold levels by means of a monaural, pure tone, air-conduction threshold test;

"audiometric test" means the act of assessing an individual's hearing in order to establish a PLH shift and/or STS;

"audiometric zero" means the average hearing threshold at 2, 3 and 4 kHz for each ear calculated from baseline;

"audiometry" means the procedure to be followed in testing an individual's hearing;

"Compensation Commissioner" means the Compensation Commissioner appointed under section 2(l)(u) of the Compensation for Occupational Injuries and Diseases Act, 1993 (Act No. 130 of 1993);

"diagnostic audiology" means the advanced assessment and management of hearing and hearing loss conducted by an audiologist or ENT Specialist;

"instruction No. 171" means the Compensation Commissioner's Circular Instruction No.171 and Supplement entitled Determination of Permanent Disablement Resulting from Noise Induced Hearing Loss and Trauma;

"PLH" means percentage loss of hearing calculated on every audiogram;

"PLH shift" means the difference between the current PLH and the baseline PLH; and is used to determine the need for compensation for NIHL;

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"screening audiometric tests" means audiometric tests, conducted by a competent person, to establish baseline, entry, initial, periodic and exit audiograms;

"STS or Standard threshold shift" means an average change in hearing of 10dB or more at the frequencies of 2, 3 and 4 kHz in one or both ears, as compared to the employee's audiometric zero; and is used as a measure to prevent NIHL;

1. Scope

The scope of the Code of Practice for Medical Surveillance will be aligned with the scope of application of the Noise-Induced Hearing Loss Regulations.

2. Medical Surveillance

2.1 An employer is required to establish, maintain and document a system of medical surveillance in terms of Regulation 8 of the Noise-Induced Hearing Loss Regulations. The medical surveillance must be a planned, ongoing programme of audiometric testing, including baseline, entry, initial, periodic and exit audiometry.

2.2 The medical surveillance programme must be implemented under the guidance of an occupational medicine practitioner.

3. Audiometric Testing

3.1.1 Audiometric testing must be conducted on all employees exposed to:

a) noise at or above the noise action level where there is concomitant exposure to ototoxic chemical agents and/or whole body vibration; or

b) noise at or above the noise-rating limit.

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3.1.2 The audiometric testing may include; baseline, entry, initial, periodic and exit audiometry.

3.1.3 Audiometric testing must be conducted by a competent person: audiometric testing, as defined in the Noise-Induced Hearing Loss Regulations.

3.2 Baseline audiometry

3.2.1 The baseline audiometric test must be conducted before or within 30-days of deployment or entry into an environment where there is potential exposure to noise.

3.2.2 A baseline audiometric test is a once-off test that must be conducted on every employee who is deployed or enters into an environment where there is potential exposure to noise for the first time in their work-life span.

3.2.3 The baseline audiometric test, in terms of 3.2.1, must establish:

a) a baseline PLH, which will serve as a reference PLH against which all future PLH shifts will be compared; and

b) the audiometric zero for the purpose of calculating STS, against which all future STS will be compared.

3.2.4 An employee employed before the promulgation of the Noise-Induced Hearing Loss Regulations of 202X, will require a baseline audiometric test to establish;

a) the audiometric zero against which all future STS will be compared.

3.2.5 The baseline audiometric test, in terms of 3.2.4 (a), must be conducted within 24-months of the promulgation of the Noise-Induced Hearing Loss Regulations of 202X.

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3.2.6 The baseline audiometric test must comply with the following:

3.2.6.1 Reliability criteria:

As referenced in SANS 10083, consists of;

a) otoscopic examination (clause 14);
b) audiometric history (clause 14);
c) correct test environment (clause 14); and
d) use of reliable equipment with regards to type, maintenance and calibrations (clauses 15 and 16).

3.2.6.2 Validity criteria:

As referenced in Instruction 171, Supplement 171 and SANS 10083, consists of;

a) two audiograms done;
    i. on the same day;
    ii. the same setting; and
    iii. two different sittings;
b) must be conducted after at least 16-hours free from any noise exposure without the use of HPDs;
c) the hearing thresholds in the two audiograms for each ear, at any frequency from 0.5 kHz to the 4 kHz must not differ by not more than 10 decibels;

3.2.7 Once a valid baseline audiometric test has been established, the audiogram with the lowest PLH will be regarded as the baseline for that employee.

3.2.8 Where a screening audiometric test is unable to establish a valid baseline audiometric test, the screening test must be repeated after another interval of 16-hours free from exposure to noise (without the use of HPD). If the repeat screening test is still unable to establish a valid baseline audiometric test, the employee must be referred to an audiologist to establish a valid baseline audiometric test, using appropriate techniques or methodologies, as referenced in Instruction 171 and SANS

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10083 clause 17.9. This process must be completed, as far as is reasonably practicable, within the 30-day deadline.

3.2.9 Where a valid baseline audiometric test has not been established or is not available for the period 1 May 2001 to 16 November 2003 or for employees deployed into an environment with potential exposure to noise after November 2003, the baseline PLH (reference PLH) will be considered to be 0%.

3.2.10 Within 24-months from the promulgation of the Noise-Induced Hearing Loss Regulations of 202X, conduct a baseline audiometric test to establish the audiometric zero, against which future STS comparisons will be made.

3.2.11 Any employee who starts work in a noise zone during this 24-months period will require a baseline audiometric test, which will establish:

a) baseline PLH shift; and
b) audiometric zero.

3.3 Entry Audiometric Test

3.3.1 An entry audiometric test must be conducted on every employee previously exposed to noise, who is deployed or enters a new environment with potential exposure to noise. The employer must use the entry audiometric test to establish:

a) PLH shifts from baseline;
b) STS comparison against audiometric zero;
c) preventive interventions and reporting, in terms of 3.8; and
d) the need for referral for diagnostic audiology.

3.3.2 The entry audiometric test must comply with the following:

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3.3.2.1. Reliability criteria:

As referenced in SANS 10083, consists of:

a) otoscopic examination (clause 14);
b) audiometric history (clause 14);
c) correct test environment (clause 14); and
d) use of reliable equipment with regards to type, maintenance and calibrations (clauses 15 and 16).

3.3.2.2. Validity criteria:

As referenced in SANS 10083, an entry audiometric test must meet the following validity criteria:

a) consist of one audiogram;
b) must be conducted after at least 16-hours free from any noise exposure without the use of HPDs;
c) must be conducted before or within 30-days of deployment or entry into an environment where there is potential exposure to noise.

3.4 Initial Audiometric Test

3.4.1 An initial audiometric test must be conducted on every employee exposed to noise, in terms of 3.1.2, where there is no valid baseline and/or valid entry audiometric test.

3.4.2 The initial audiometric test must establish:

a) PLH shifts from baseline;
b) STS comparison against audiometric zero;
c) preventive interventions and reporting, in terms of 3.8; and
d) the need for referral for diagnostic audiology.

3.4.3 The initial audiometric test must comply with the following:

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3.4.3.1. Reliability criteria:

As referenced in SANS 10083, consists of:

a) otoscopic examination (clause 14);
b) audiometric history (clause 14);
c) correct test environment (clause 14); and
d) the use of reliable equipment with regards to type, maintenance and calibrations (clauses 15 and 16).

3.4.3.2. Validity criteria:

An initial audiometric test must meet the following validity criteria:

a) consist of one audiogram; and
b) must be conducted after at least 16-hours free from any noise exposure without the use of HPDs.

3.5 Periodic audiometry

3.5.1 A periodic audiometric test must be conducted on every employee exposed to noise, in terms of 3.1.2, as part of medical surveillance for noise.

3.5.2 The periodic audiometric test must be conducted:

a) every 12-months for exposures;
   i) at or above 85 dBA but less than 105 dBA;
   ii) at or above 82 dBA with concomitant exposure to ototoxic chemical agents and/or whole body vibration;
b) every 6-months for exposures at or above 105 dBA;
c) at more frequent intervals if recommended by the OHP based on clinical evidence.

3.5.3 The periodic audiometric test must establish:

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a) PLH shifts from baseline;
b) STS comparison against audiometric zero;
c) preventive interventions and reporting, in terms of 3.8; and
d) the need for referral for diagnostic audiology.

3.5.4 The periodic audiometric test must comply with the following:

3.5.4.1 Reliability criteria:

As referenced in SANS 10083, consists of:

a) otoscopic examination (clause 14);
b) audiometric history (clause 14);
c) correct test environment (clause 14); and
d) the use of reliable equipment with regards to type, maintenance and calibrations (clauses 15 and 16).

3.5.4.2 Validity criteria:

As referenced in SANS 10083, a periodic audiometric test must meet the following validity criteria:

a) consist of one audiogram;
b) where reasonably practicable, should be conducted after a period of at least 16-hours free from any noise exposure without the use of HPDs: Provided that the correct wearing of HPDs, that complies with the relevant parts of SANS 1541, while performing work in a noise zone prior to the audiometric test, must be deemed as meeting the 16-hour period free from noise exposure.

3.6 Diagnostic audiology

3.6.1 A diagnostic audiometric test must be conducted on all employees exposed to noise, in terms of 3.1.2, where:

a) screening audiometry identifies a PLH shift greater than 10% from baseline; and
b) the hearing loss pattern suggests NIHL.

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3.6.2 An employer must provide the audiologist with the documents listed in SANS 10083 clause 19.13.

3.6.3 The diagnostic audiometric test must comply with the following:

3.6.3.1 Reliability criteria:

As referenced in SANS 10083, consists of:

a) otoscopic examination (clause 14);
b) audiometric history (clause 14);
c) correct test environment (clause 14);
d) the use of reliable equipment with regards to type, maintenance and calibrations (clauses 15.2, 16 and 19); and
e) the battery of audiometric tests (clause 19.12).

3.6.3.2 Validity criteria:

As referenced in SANS 10083, a diagnostic audiometric test must meet the following validity criteria:

a) is conducted by an audiologist or ENT Specialist;
b) consist of two sets of the battery of audiometric tests, in terms of 3.5.3.1 (e);
c) be conducted after a period of at least 24-hours free from any noise exposure without the use of HPDs;
d) be conducted on the same day;
e) the two diagnostic audiometric tests do not differ by more than 10 dB at any frequency used to determine the PLH.

3.6.4 Where, after 3 attempts, it is not possible to obtain a diagnostic audiogram that meets validity criteria, the employee must be immediately referred to an ENT Specialist to determine the hearing loss.

3.6.5 The diagnostic audiometric test, used to compensate an employee for NIHL must become that employees revised baseline.

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3.7 Exit Audiometry

3.7.1 An exit audiometric test must be conducted on every employee who was exposed to noise, in terms of 3.1.2, on termination of employment.

3.7.2 The exit audiometric test must be conducted before or within 7-days of date of termination of employment.

3.7.3 Should an audiometric test, meeting the criteria in 3.6.3, conducted within 6-months prior to date of termination of employment, that audiometric test can be considered as fulfilling the requirements for an exit audiometric test.

3.7.4 The exit audiometric test must establish:

a) PLH shifts from baseline;
b) STS comparison against audiometric zero;
c) preventive interventions and reporting, in terms of 3.8; and
d) the need for referral for diagnostic audiology.

3.7.5 The exit audiometric test must comply with the following:

3.7.5.1 Reliability criteria:

As referenced in SANS 10083, consists of;

a) otoscopic examination (clause 14);
b) audiometric history (clause 14);
c) correct test environment (clause 14); and
d) the use of reliable equipment with regards to type, maintenance and calibrations (clauses 15 and 16).

3.7.5.2 Validity criteria:

As referenced in SANS 10083, an exit audiometric test must meet the following validity criteria:

a) consist of one audiogram; and
b) be conducted after a period of at least 16-hours free from any noise exposure without the use of HPDs.

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3.8 Action Criteria and Reporting

3.8.1 The OHPs must determine:

a) the audiometric zero and STS; PLH and PLH shift from baseline; and

b) the type of hearing loss.

3.8.2 Where a STS of 10dB to 25dB is reached, the OHP must ensure that:

a) the audiometric test is referred for discussion with an OMP;

b) an investigation is conducted by the employer to determine;

i) the reasons for the STS shift, including pathologies; and

ii) the effectiveness of the hierarchy of controls, including HPDs;

c) the employer retrains the employee in terms of regulation 4 of the Noise-Induced Hearing Loss Regulations;

d) the STS is reported to the employer and health and safety committee and/or the health and safety representative; and

e) the frequency of subsequent periodic audiometric tests must follow an OMP recommendation.

3.8.3 Where a STS of 25dB or more is reached, the OHP must ensure that:

a) the provisions of 3.8.2 are complied with;

b) the employee is referred for diagnostic audiology;

c) where diagnostic audiology confirms a STS of 25dB or more, the OMP must report the STS to the Chief Inspector of the Department of Employment and Labour.

3.8.4 Where screening audiometry identifies a PLH shift of 10% or more from baseline, the OHP must ensure that:

a) the employee is referred to the OMP for further case management;

b) the employee is referred for diagnostic audiology on the recommendation of the OMP;

3.8.5 Where diagnostic audiology confirms a PLH shift of 10% or more from baseline, with a NIHL pattern:

a) the OHP must report the case to:

i) the employer; and

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ii) the Chief Inspector of the Department of Employment and Labour;

b) the employer must report the case to the Compensation Commissioner;

c) the employer must conduct an investigation to determine;

i) the reasons for the PLH shift, including pathologies; and

ii) the effectiveness of the hierarchy of controls, including HPDs;

d) the frequency of subsequent periodic audiometric tests must follow an OMP recommendation.

3.8.6 As referred in SANS 10083, the date of the diagnostic audiometric test confirming a shift in PLH from baseline that exceeds 10%, must be regarded as the date of diagnosis of compensable NIHL.

3.8.7 The employer must keep a record of the following:

a) all audiometric tests conducted;

b) all documents relating to reliability and validity criteria; and

c) investigation into STS and PLH shifts.

3.8.8 The employer must ensure that:

a) an employee is provided with a copy of baseline audiometric test and exit audiometric test upon termination of employment; and

b) where reasonably practicable and relevant, a new employee provides a copy of their baseline audiometric test.

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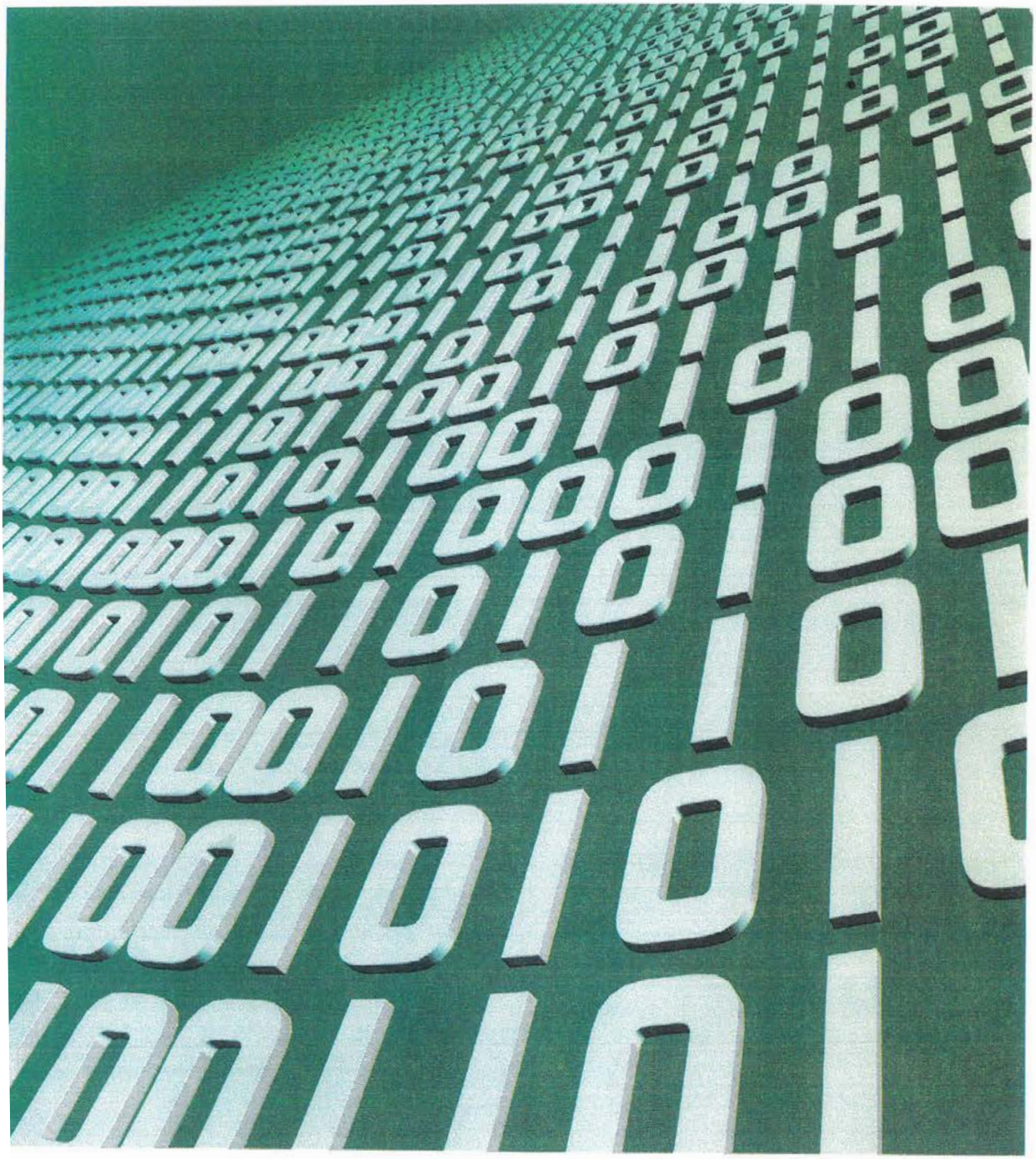
NO. 2667 **21 October 2022**

NATIONAL HEALTH ACT, 2003 (ACT NO 61 OF 2003)
NATIONAL 2021 NORMATIVE STANDARDS FRAMEWORK FOR INTEROPERABILITY IN DIGITAL HEALTH

I, Dr S.S.S Buthelezi, the Director-General: Health hereby, in terms of Section 74 (1) of the National Health Act, 2003 (Act No. 61 of 2003), publish the 2021 National Health Normative Standards Framework for Interoperability in Digital Health to facilitate and co-ordinate the establishment, implementation and maintenance by provincial departments, district health councils, municipalities and the private health sector of health information systems at national, provincial and local levels in order to create a comprehensive national health information system.

2021 National Health Normative Standards Framework for Interoperability in Digital Health is also available on www.health.gov.za

DR S.S.S BUTHELEZI
DIRECTOR-GENERAL: HEALTH
DATE: 05/09/2022



2021 HEALTH NORMATIVE STANDARDS FRAMEWORK

FOR DIGITAL HEALTH INTEROPERABILITY IN SOUTH AFRICA

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2021 HEALTH NORMATIVE STANDARDS FRAMEWORK

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NDoH (2021), National Health Normative Standards Framework for Interoperability in Digital Health in South Africa. Pretoria, South Africa.

ISBN: 978-0-7988-5645-4

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LIST OF ACRONYMS

ADM	Architecture Development Method
API	Application Program Interface
ATNA	Audit Trail and Node Authentication
CCOW	Clinical Context Object Workgroup (a context management specification)
CCD	Continuity of Care Document
CCR	Continuity of Care Record
CDA	Clinical Document Architecture
CEN	European Committee for Standardization
CHC	Community Health Centre
COBIT	Control Objectives for Information and Related Technologies
CSIR	Council for Scientific and Industrial Research
CT	Consistent Time
DICOM	Digital Imaging and Communications in Medicine
DSUB	Document Metadata Subscription
EA	Enterprise Architecture
edXML	Electronic Business using eXtensible Markup Language
EMR	Electronic Medical Record
EUA	Enterprise User Authentication
EU	European Union
FHIR	Fast Healthcare Interoperability Resources
HIMSS	Health Information and Management Systems Society
HIS	Health Information System
HL7	Health Level Seven
HNSF	Health Normative Standards Framework for Interoperability in Digital Health in South Africa
ICD-10	International Statistical Classification of Diseases, 10th Revision
ICT	Information and Communications Technology
ID	Identifier
IHE	Integrating the Healthcare Enterprise
ISO	International Organization for Standardization
IT	Information Technology
ITI	Information Technology Infrastructure
ITU	International Telecommunication Union
IUA	Internet User Authorisation
mACM	Mobile Alert Communication Management
mCSD	Mobile Care Services Discovery
MHD	Mobile access to Health Documents
MIOS	Minimum Interoperability Standard
MPQ	Multi-Patient Queries
NDoH	National Department of Health
NHI	National Health Insurance
NPFSm	Non-patient File Sharing
OASIS	Organisation for the Advancement of Structured Information Standards
PAM	Patient Administration Management
PDF	Portable Document Format
PDQ	Patient Demographics Query
PHC	Presidential Health Compact
PIX	Patient Identifier Cross-referencing
PIXm	Patient Identifier Cross-reference for Mobile
PIXv3	Patient Identifier Cross-referencing for HL7v3
PLT	Patient Location Tracking
PWP	Personnel White Pages
RID	Retrieve Information for Display
RIM	Reference Information Model
REST	Representational State Transfer
RFD	Retrieve Form for Data Capture
RMD	Remove Metadata and Documents
SA NHIS	South African National Health Information System
SeR	Secure Retrieve
SVS	Sharing Value Sets

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WHO	World Health Organization
XAD-PID	XDS Affinity Domain Patient ID
XCA	Cross-Community Access
XCDR	Cross-Community Document Reliable Interchange
XCPD	Cross-Community Patient Discovery
XDM	Cross-Enterprise Document Media Interchange
XDS	Cross-Enterprise Document Sharing
XDS-MS	Cross-Enterprise Sharing of Medical Summaries
XML	Extensible Markup Language
XPID	XAD-PID Change Management
XUA	Cross-Enterprise User Assertion

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FOREWORD



The 2018 Presidential Health Compact (PHC) of 2018, Pillar 9, articulates the role of an information system that will guide health system policies, strategies and investments. Information Systems are an essential element of achieving the portability of health services in South Africa because they provide healthcare workers with secure access to patient information to support quality services to all, and the systems place the patient at the centre of their own care.

This approach to complete portability of records is only possible if there is a national consensus in the way in which data are handled, underpinned by a shared vocabulary and information system standards.

The Health Normative Standards Framework (HNSF) for Digital Health Interoperability in South Africa forms the basis for establishing interoperable solutions and platforms for data security, data sharing and storage of all information in the health system.

The 2021 HNSF aligns to the National Digital Health Strategy for South Africa 2019–2024 in pursuit of a unified health system and supersedes the 2014 HNSF.

The publication of this document is a testament to the interest and support of many stakeholders and is the culmination of an inspiring domain collaboration. The National Department of Health acknowledges all the institutions, entities and individuals that have been willing to engage in the process and have helped to shape and refine the final document.

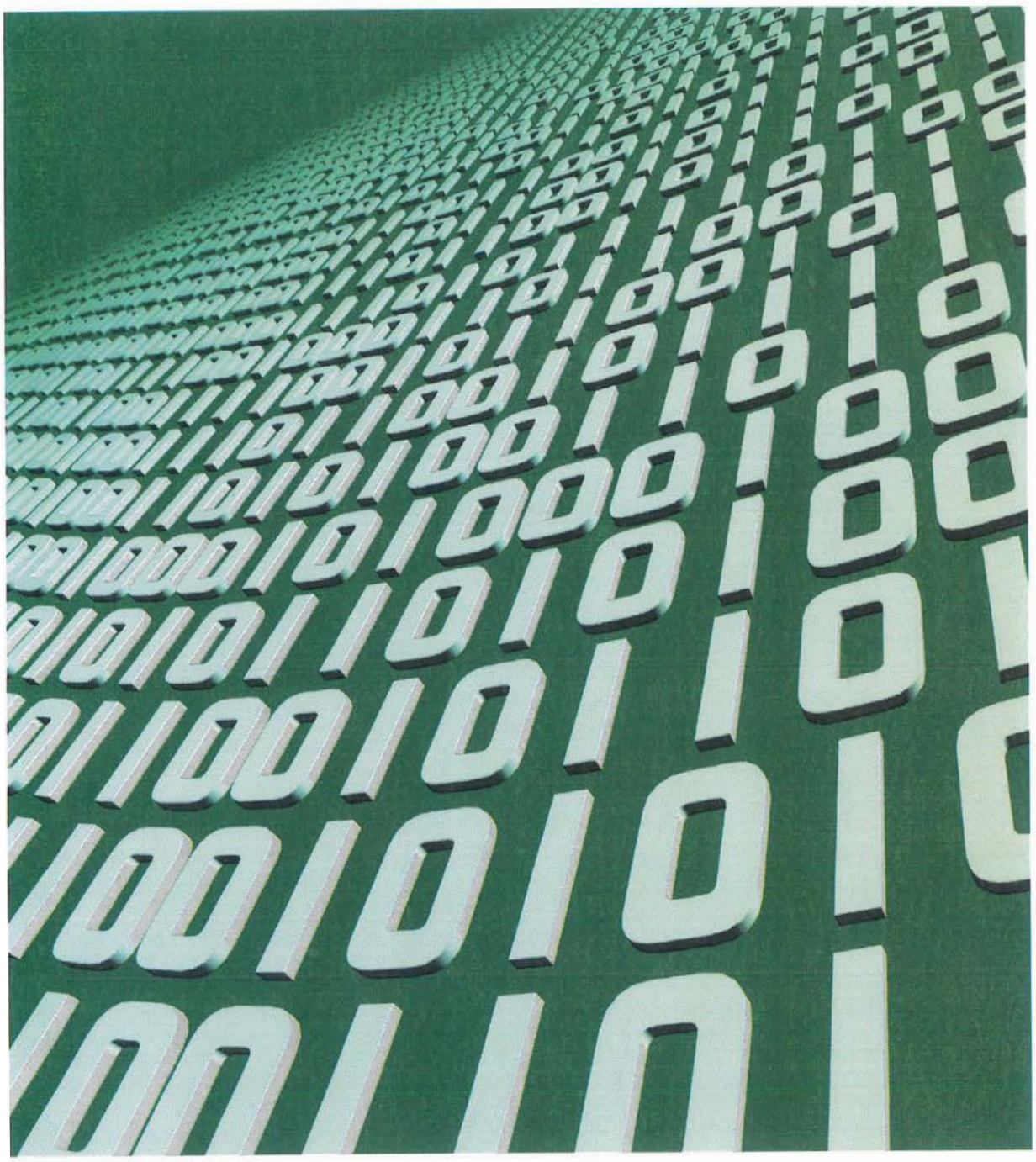
The many officials from the National Department of Health who have participated in the development of the document have provided a robust sounding board of immense value. The Chief Director: Policy Coordination and Integrated Planning, Milani Wolmarans, with support from Wesley Solomon, Technical Advisor on NHI Digital Health, have been instrumental in coordinating and guiding the process. Their unwavering effort and time invested reflect their professional commitment to the Health Sector in South Africa.

The CSIR project team, under the leadership of Matthew Chetty, Impact Area Manager: e-Government and Thomas Fogwill, has been collaborating since the publication of the 2014 HNSF and their efforts are acknowledged. The insights and efforts of Prof Adele Botha, JP Tolmay, Dr George Sibiya, Riaan Roos, Akhona Sampson, Dr Laticha Walters, Bahle Mkhize; and Prof Marlien Herselman have been vital to the conceptualisation and presentation of the 2021 HNSF.

As this document is published and its content realised, special recognition is given to the implementers, programmers and individuals to whom the task will fall to operationalise the content and as such become co-creators of a fully interoperable Health Information System for South Africa.

DR SSS BUTHELEZI
DIRECTOR GENERAL HEALTH
DATE : 01/09/2022

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2021 HEALTH NORMATIVE STANDARDS FRAMEWORK

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NDoH (2021), National Health Normative Standards Framework for Interoperability in Digital Health in South Africa. Pretoria, South Africa.

ISBN: 978-0-7988-5645-4

This version, 2021 HNSF, supersedes all previous versions.

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LIST OF ACRONYMS

ADM	Architecture Development Method
API	Application Program Interface
ATNA	Audit Trail and Node Authentication
CCOW	Clinical Context Object Workgroup (a context management specification)
CCD	Continuity of Care Document
CCR	Continuity of Care Record
CDA	Clinical Document Architecture
CEN	European Committee for Standardization
CHC	Community Health Centre
COBIT	Control Objectives for Information and Related Technologies
CSIR	Council for Scientific and Industrial Research
CT	Consistent Time
DICOM	Digital Imaging and Communications in Medicine
DSUB	Document Metadata Subscription
EA	Enterprise Architecture
edXML	Electronic Business using eXtensible Markup Language
EMR	Electronic Medical Record
EUA	Enterprise User Authentication
EU	European Union
FHIR	Fast Healthcare Interoperability Resources
HIMSS	Health Information and Management Systems Society
HIS	Health Information System
HL7	Health Level Seven
HNSF	Health Normative Standards Framework for Interoperability in Digital Health in South Africa
ICD-10	International Statistical Classification of Diseases, 10th Revision
ICT	Information and Communications Technology
ID	Identifier
IHE	Integrating the Healthcare Enterprise
ISO	International Organization for Standardization
IT	Information Technology
ITI	Information Technology Infrastructure
ITU	International Telecommunication Union
IUA	Internet User Authorisation
mACM	Mobile Alert Communication Management
mCSD	Mobile Care Services Discovery
MHD	Mobile access to Health Documents
MIOS	Minimum Interoperability Standard
MPQ	Multi-Patient Queries
NDoH	National Department of Health
NHI	National Health Insurance
NPFSm	Non-patient File Sharing
OASIS	Organisation for the Advancement of Structured Information Standards
PAM	Patient Administration Management
PDF	Portable Document Format
PDQ	Patient Demographics Query
PHC	Presidential Health Compact
PIX	Patient Identifier Cross-referencing
PIXm	Patient Identifier Cross-reference for Mobile
PIXv3	Patient Identifier Cross-referencing for HL7v3
PLT	Patient Location Tracking
PWP	Personnel White Pages
RID	Retrieve Information for Display
RIM	Reference Information Model
REST	Representational State Transfer
RFD	Retrieve Form for Data Capture
RMD	Remove Metadata and Documents
SA NHIS	South African National Health Information System
SeR	Secure Retrieve
SVS	Sharing Value Sets

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WHO	World Health Organization
XAD-PID	XDS Affinity Domain Patient ID
XCA	Cross-Community Access
XCDR	Cross-Community Document Reliable Interchange
XCPD	Cross-Community Patient Discovery
XDM	Cross-Enterprise Document Media Interchange
XDS	Cross-Enterprise Document Sharing
XDS-MS	Cross-Enterprise Sharing of Medical Summaries
XML	Extensible Markup Language
XPID	XAD-PID Change Management
XUA	Cross-Enterprise User Assertion

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FOREWORD



The 2018 Presidential Health Compact (PHC) of 2018, Pillar 9, articulates the role of an information system that will guide health system policies, strategies and investments. Information Systems are an essential element of achieving the portability of health services in South Africa because they provide healthcare workers with secure access to patient information to support quality services to all, and the systems place the patient at the centre of their own care.

This approach to complete portability of records is only possible if there is a national consensus in the way in which data are handled, underpinned by a shared vocabulary and information system standards.

The Health Normative Standards Framework (HNSF) for Digital Health Interoperability in South Africa forms the basis for establishing interoperable solutions and platforms for data security, data sharing and storage of all information in the health system.

The 2021 HNSF aligns to the National Digital Health Strategy for South Africa 2019–2024 in pursuit of a unified health system and supersedes the 2014 HNSF.

The publication of this document is a testament to the interest and support of many stakeholders and is the culmination of an inspiring domain collaboration. The National Department of Health acknowledges all the institutions, entities and individuals that have been willing to engage in the process and have helped to shape and refine the final document.

The many officials from the National Department of Health who have participated in the development of the document have provided a robust sounding board of immense value. The Chief Director: Policy Coordination and Integrated Planning, Milani Wolmarans, with support from Wesley Solomon, Technical Advisor on NHI Digital Health, have been instrumental in coordinating and guiding the process. Their unwavering effort and time invested reflect their professional commitment to the Health Sector in South Africa.

The CSIR project team, under the leadership of Matthew Chetty, Impact Area Manager: e-Government and Thomas Fogwill, has been collaborating since the publication of the 2014 HNSF and their efforts are acknowledged. The insights and efforts of Prof Adele Botha, JP Tolmay, Dr George Sibiya, Riaan Roos, Akhona Sampson, Dr Laticha Walters, Bahle Mkhize; and Prof Marlien Herselman have been vital to the conceptualisation and presentation of the 2021 HNSF.

As this document is published and its content realised, special recognition is given to the implementers, programmers and individuals to whom the task will fall to operationalise the content and as such become co-creators of a fully interoperable Health Information System for South Africa.

DR SSS BUTHELEZI
DIRECTOR GENERAL HEALTH
DATE : 01/09/2022

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EXECUTIVE SUMMARY

The 2021 Health Normative Standards Framework for Digital Health Interoperability in South Africa (2021 HNSF) follows on the 2014 HNSF, which set the foundational basis for interoperability as articulated in the eHealth Strategy for South Africa 2012–2017[1]. This strategy was replaced by the National Digital Health Strategy for South Africa 2019–2024[2], with its vision of a "better health for all South Africans enabled by person-centred Digital Health". The strategy proposes several strategic interventions that should be achieved by 2024, one of which is to "establish an integrated information architecture for interoperability and effective, safe sharing of health information across health systems and services" in South Africa. This is a key point that can be enabled by the HNSF.

The 2014 HNSF set the foundational basis for interoperability in Digital Health with the selection of:

- The family of standards based on the HL7 v3 Reference Information Model (RIM)[3];
- The standards based on the ISO 13606 Parts 1–5 / OpenEHR Reference Model (RM)[4]; and
- The interoperability standards-based profiles developed by the global organisation, Integrating the Health Enterprise (IHE)[5].

The 2014 publication of the HNSF is acknowledged as laying a foundation for national interoperability. Within this context, the National Digital Health Strategy for South Africa 2019–2024[6] acknowledges the contribution of the "strategic interventions for standards and interoperability" and speaks to a goal of national health information system interoperability towards "better health for all South Africans enabled by person-centred Digital Health". The strategy document proposes several interventions that should be achieved by 2024. One of these is to "establish an integrated information architecture for interoperability and effective, safe sharing of health information across health systems and services". A key enabler is the development of the HNSF to guide the realisation of a fully interoperable South African digital healthcare environment. In line with the vision of the National Digital Health Strategy for South Africa 2019–2024, this document outlines the progression of the HNSF and supersedes the 2014 HNSF version.

---

[1] NDoH. (2012). eHealth Strategy for South Africa 2012-2017. Pretoria: South African National Department of Health

[2] NDoH. 2019. National Digital Health Strategy for South Africa, 2019–2024. South Africa

[3] Health Level Seven International. (2013e). HL7 Version 3 Product Suite, from http://www.hl7.org/implement/standards/product_brief.cfm?product_id=186

[4] EN 13606 Association. (2012). The CEN/ISO EN13606 standard, from http://www.en13606.org/the-ceniso-en13606-standard

[5] IHE International. (2012). IHE Changing the way in which healthcare connects, from http://www.ihe.net/

[6] NDoH. (2019). National Digital Health Strategy for South Africa, 2019–2024. South Africa

PURPOSE

The purpose of the HNSF is to enable the efficient and safe flow of healthcare-related person-centred information across institutional and provincial boundaries. The 2021 HNSF views interoperability as the ability of disparate and diverse organizations to interact towards mutually beneficial and agreed common goals. It extends to include the sharing of information and knowledge between organizations, through the business processes that they support, using the exchange of data between their respective ICT systems[7].

Health system efficiency remains a central concern in all health systems, and especially so within the South African resource constrained context. The efficient flow of healthcare-related information across institutional and provincial boundaries is considered a key enabler, which rests in system-wide interoperability. The HNSF is seen as taking the role of enabling interoperability within a fully interoperable South African healthcare environment. The advantages of approaching the development of IT systems based on an agreed set of standards include alignment, integration, flexibility, reusability, portability and reduced time to market.

INTENDED AUDIENCE

This document is intended for use by policymakers, health domain decision makers, strategic planners, clinical information experts, business analysts, interoperability architects, enterprise architects, software developers and solution architects to guide and structure present and future Health Information System (HIS) planning and execution. Additionally, it is intended to guide decision makers when designing, developing and deploying digital health systems in South Africa.

SCOPE

The HNSF deals with the ability of health information systems to communicate with each other and to use each other's capabilities within an interoperable South African healthcare environment. From this perspective, the following are relevant:

- The HNSF is primarily concerned with interoperability with regards to patient-centric interactions within a fully interoperable South African digital healthcare environment;
- The HNSF does not address the internal system data flow or structure. However, if systems interact with, use data from, or upload data to a shared National Health Information System, infrastructure or shared EHR system, the HNSF will apply;
- IHE Profiles available for public comment were not included, as these were considered to still be in draft form. Selected exceptions are made in the case of FHIR[8];
- Dependencies among IHE Profiles are implied and need to be considered[9];
- The HNSF currently only refers to *value sets*[10]. The required use of specific sets relevant for local implementation will be published in Implementation Guides as National

[7] https://ec.europa.eu/isa2/elf_en

[8] This version of the HNSF incorporates relevant IHE ITI domain profiles that are in Final Text and Fast Healthcare Interoperability Resources (FHIR)-related profiles, despite being in Trial Implementation. This exception was made to balance the domain needs and the need for a stable set of profiles and standards. The ITI profiles, Healthcare Provider Directory, Advanced Patient Privacy Consents and Care Services Discovery are exceptions, as these were considered of imminent importance. More information is available at: https://wiki.ihe.net

[9] For example, the Patient Identifier Cross-referencing (PIX); each actor implimenting PIX should be grouped with the Time Client (TM). This is done to manage and resolve conflicts in multiple updates.

[10] Value sets are seen as specific sets of data relevant for local implementation.

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Specification in due time; accordingly, semantic interoperability will remain an ongoing national undertaking; and

- This current version of the HNSF does not extensively address issues associated with the legal and regulatory, policy or care process interoperability, but acknowledges their importance in a fully interoperable healthcare environment[11].

The narrative in this document assumes a working knowledge of the standard landscape and the South African healthcare environment; hence, associated concepts are not extensively reviewed. Although a certain level of technical proficiency would be advisable, a concerted effort has been made to improve the readability for a non-technical audience. Some terms and concepts are outlined in the footnotes to avoid ambiguity.

APPROACH

The 2021 HNSF is presented as *useful* and not necessarily *optimal* or *perfect*, as the criteria for these concepts would change over time and may represent moving targets[12]. The 2021 HNSF applied a robust but pragmatic approach to its presentation and revision. The methodology recognised the rapidly changing information system environment, including the temporary nature of the domain and evolving stakeholder requirements. The guiding principles for the 2021 HNSF are outlined in Table 1.

A draft version of the 2021 HNSF was submitted to a rigorous domain evaluation and consultation process. The process included a workshop, domain feedback and the publication of the draft document for comment. Feedback and comments from various stakeholders were noted and addressed where relevant (Appendix A).

GUIDING PRINCIPLES

The guiding principles for the 2021 HNSF implementation towards a fully interoperable South African healthcare environment are outlined in Table 1.

TABLE 1: INTEROPERABILITY DEVELOPMENT PRINCIPLES

Principle Name	Principle Statement
Incremental approach	Take an incremental approach towards the development of a fully interoperable South African digital healthcare environment.
Manage initiatives through governed evolution	The NDoH is to assess all interoperability initiatives extensively for alignment to the HNSF.
National coordination and collaboration	Establish and maintain a national digital health and interoperability community to improve the adoption and development of a fully interoperable South African digital healthcare environment. Adopt a governance approach that includes the digital health community in decision-making and management implementation.
Security, confidentiality and patient privacy	Protect information security, confidentiality and patient privacy at all times.
Open source	Consider available open-source solutions for cost-effectiveness, and use internationally accepted standards that promote interoperability for data, workflows and technology.
Intellectual property	Ensure that the intellectual property ownership of public sector eHealth initiatives is vested in the government.

[11] https://ec.europa.eu/isa2/elf_en

[12] Nickerson, R., Muntermann, J., Varshney, U., & Isaac, H. (2009). *Taxonomy development in Information systems: Developing a taxonomy of mobile applications.* Paper presented at the European Conference in Information Systems.

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Principle Name	Principle Statement
Data availability	Ensure that data is available to digital health information systems (within the bounds of confidentiality).
Policy and governance adherence	Follow established national policies, as well as specific governance policies defined by the South African Government.
Data quality and integrity	Follow the accepted data standards and create measures to uphold the integrity and reliability of data, processed or stored.
Patient centricity	Patient journeys are at the core of health system interoperability and should be represented in all aspects of the digital health information system.

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POLICY AND REGULATORY CONTEXT

The 2021 HNSF acknowledges the policy and regulatory environment as stated in the South African National Digital Health Strategy[13]. The legislation, regulation and policies affecting the interoperability of South Africa digital health systems are considered critical in the implementation of the HNSF to ensure strict compliance.

The 2021 HNSF acknowledges all the relevant regulatory bodies, authorities, legislative and policy frameworks that support the NDHS, as these monitor practitioners, locums and facilities; provide the necessary information and changes within the industry; ensure compliance and quality service standards; and promote safety and professionalism in industry[14].

The 2021 HNSF is aligned to an agreed level of interoperability of functionalities, as stated in the NHI Bill[15]. According to the NHI Bill[16], an information platform will enable informed decision-making on population health needs assessment, financing, purchasing, patient registration, service provider contracting and reimbursement, utilisation patterns, performance management, setting the parameters for the procurement of health goods, and fraud and risk management. Further detail on the policy and regulatory context is presented in Appendix B.

OUTLINE

The remainder of this document comprises the following sections:

- Health System-Level Interoperability.
- 2021 HNSF Implementation; and
- Conclusion

A number of Annexures highlight and provide additional detail on the feedback from the consultation process, the policy and regulatory context and IHE core components, and unpacks the National Interoperability Use Cases in greater detail.

[13] World Health Organization (WHO). 2012. National eHealth Strategy Toolkit. Retrieved October 2019 from https://www.itu.int/dms_pub/itu-d/opb/str/D-STR-E_HEALTH.05-2012-PDF-E.pdf.

[14] National Department of Health. 2020. Retrieved March 2020 from: https://www.gov.za/about-sa/health.

[15] National Health Insurance Bill. Retrieved March 2020 from https://www.gov.za/sites/default/files/gcis_document/201908/national-health-insurance-bill-b-11-2019.pdf

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HEALTH SYSTEM-LEVEL INTEROPERABILITY

FEDERATED HEALTH INFORMATION ARCHITECTURE

The 2021 HNSF is approached from a health system-level interoperability view, in other words, information exchange between systems (and is therefore not concerned with the architecture of the individual systems). The conceptual model[16] for enabling system-level interoperability is a Federated Health Information Architecture, as conceptually presented in Figure 1. This conceptual view of the Interoperability Architecture is a hybrid between locally stored and centralised data.

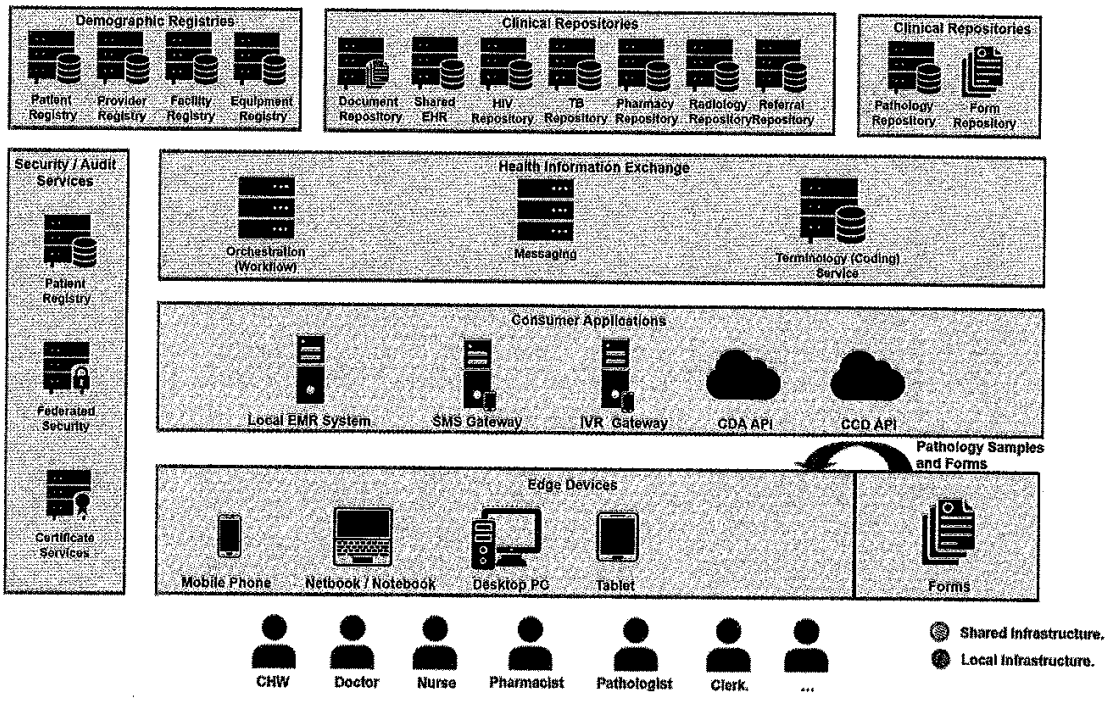


FIGURE 1: CONCEPTUAL VIEW OF THE INTEROPERABILITY ARCHITECTURE

A fully interoperable South African healthcare environment will make use of shared as well as local infrastructure. It will be characterised by:

- Clinical repositories that are shared across healthcare services and facilities, hospitals, and districts, within a province or nationally
  - A central patient registry exists, which is shared across all healthcare facilities served by the shared infrastructure (the patient will have the same identifier across all the healthcare services and facilities);

[16] A conceptual model is a representation of a system, made of the composition of concepts that are used to help people know, understand or simulate a subject that the model represents. It is also a set of concepts. Merriam-Webster Dictionary. https://unabridged.merriam-webster.com

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  - A central provider registry exists, which is shared across all healthcare facilities served by the shared infrastructure;
  - A central facility registry exists, which is shared across all healthcare facilities served by the shared infrastructure; and
  - Centrally shared value sets exist, which are shared across all healthcare facilities served by the shared infrastructure.
- Shared clinical repositories that are accessed and updated by authorised users at all the healthcare facilities served by the shared infrastructure;
- A National Health Information Exchange (HIE) that will manages the data flow and activities, such as messaging, within in the shared infrastructure;
- Security and audit services that are in place to facilitate authentication across the shared infrastructure;
- Specialised consumer applications that can exist at the local healthcare facility level to manage the various edge devices (computers, mobile phones, etc.) that are used to access and record the information that is kept in the shared repositories and registries; and
- Some paper-based transactions that persist with the shared infrastructure.

2021 HNSF

The 2021 HNSF profiles are presented in Tables 2 and 3. In Table 2, each relevant IHE profile's abbreviation and description is provided for ease of reference[17,18], while Table 3 maintains backwards compatibility.

TABLE 2: 2021 HEALTH NORMATIVE STANDARDS FRAMEWORK FOR DIGITAL HEALTH INTEROPERABILITY IN SOUTH AFRICA

IHE Profile	IHE Profile Description	Referenced Standards
Advanced Patient Privacy Consents	The Advanced Patient Privacy Consents Profile defines a structural representation of a privacy consent policy. The definition allows for privacy consent policies that can include individualised parts, based on the patient's choices or other circumstances. This profile is intended to allow an unspecified enforcement mechanism, potentially within an existing access control system, to use the structured policy representation to automatically determine and enforce those policies.	XACML Core 2.0 HL7v3 Abstract Data Type Specification
Audit Trail and Node Authentication (ATNA) **Add RESTful Query to ATNA** **(Note Trial Implementation)**	Audit Trail and Node Authentication basic security through (a) functional access controls; (b) defined security audit logging; and (c) secure network communications. Note Trial Implementation addition of FHIR support in Add RESTful Query and Feed to ATNA.	DICOM: PS3.15 IETF: RFC2246, RFC7525, RFC3851 ITU-T: Recommendation X.509 (03/00) RFC5424 RFC5425 RFC5426 RFC7525 DICOM ASTM E2147-01

[17]IHE Technical Framework, vol. I: Integration Profiles, Revision 5.5. *Integrating the Healthcare Enterprise*: HIMSS/RSNA.
[18]IHE Technical Framework, vol. II: Transactions, Revision 5.5. *Integrating the Healthcare Enterprise*: HIMSS/RSNA.

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IHE Profile	IHE Profile Description	Referenced Standards
		NIST SP 800-92 W3C XML 1.0 REST/HTTP(S), FHIR RFC2616 RFC4627 RFC6585 RFC5424 RFC3339 HL7 FHIR
Basic Patient Privacy Consent	Consent records a patient's privacy consent acknowledgement (for enforcing privacy appropriate to use).	HL7 CDA R2 ISO 2260 PDF RFC3778 PDF/A ISO 19005-1b. HL7 CDA Release 2.0 RFC5646 HL7 CDA R2 ISO 2260 PDF RFC3778 PDF/A ISO 19005-1b. HL7 CDA Release 2.0 RFC5646 HL7 CDA R2 ISO 2260 PDF RFC3778 PDF/A ISO 19005-1b. HL7 CDA Release 2.0 RFC5646
Care Services Discovery	Care Services Discovery queries directories containing data about organisations, facilities, services and providers.	
Consistent Time (CT)	Consistent Time synchronises system clocks and time stamps of computers in a network (median error less than 1 second).	NTP RFC1305 SNTP Simple Network Time Protocol (SNTP) RFC4330
Cross-Enterprise Document Workflow	Coordinates human and application-mediated workflows across multiple organisations.	OASIS Web Services – Human Task (WS-HumanTask) Specification Version 1.1 HL7 CDA Release 2.0 and Reference Information Model
Cross-Community Access (XCA)	Cross-Community Access queries and retrieves patient electronic health records held by other communities.	SOAP/HTTP(S) ebXML ebRIM ebRS
Cross-Community Document Reliable Interchange (XCDR)	Cross-Community Document Reliable Interchange pushes documents to systems in another community.	ebRIM OASIS/ebXML Registry Information Model v3.0 ebRS OASIS/ebXML Registry Services Specifications v3.0 ebMS OASIS/ebXML Messaging Services Specifications v3.0
Cross-Community Patient Discovery (XCPD)	Cross-Community Patient Discovery locates communities with electronic health records for a patient and translates patient identifiers across communities.	HL7 Version 3 SOAP/HTTP(S)
Cross-Enterprise Document Media Interchange (XDM)	Cross-Enterprise Document Media Interchange transfers documents and metadata using CDs, USB memory or email attachments.	ITI TF-3 DICOM PS3.10 DICOM PS3.12 XHTML™ 1.0

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IHE Profile	IHE Profile Description	Referenced Standards
		W3C XHTML™ Basic RFC3798.
Cross-Enterprise Document Reliable Interchange	This profile is concerned with the exchanges of health documents between health enterprises using a web-service-based point-to-point push network communication.	ebMS OASIS/ebXML Messaging Services Specifications v3.0 ebRIM OASIS/ebXML Registry Information Model v3.0 ebRS OASIS/ebXML Registry Services Specifications v3.0
Cross-Enterprise Document Sharing (XDS)	Cross-Enterprise Document Sharing shares and discovers electronic health record documents between healthcare enterprises, physician offices, clinics, acute care in-patient facilities and personal health records.	SOAP/HTTP(S) ebXML ebRIM ebRS
Cross-Enterprise Sharing of Scanned Documents	This profile shares unstructured electronic documents, including scanned legacy paper and film.	PDF RFC 3778, The application/pdf Media Type (informative) PDF/A ISO 19005-1b. Document management - Electronic document file format for long-term preservation - Part 1: Use of PDF (PDF/A) HL7 CDA Release 2.0 (denoted HL7 CDA R2, or just CDA, in subsequent text) RFC 3066, Tags for the identification of languages
Cross-Enterprise User Assertion (XUA)	Cross-Enterprise User Assertion communicates claims about the identity of an authenticated principal (user, application, system...) across enterprise boundaries – Federated Identity.	SOAP/HTTP(S) ebXML ebRIM ebRS
Document Digital Signature specifies digital signatures for documents	This content profile specifies the use of digital signatures for documents that are shared between organisations.	XML Advanced Electronic Signatures XAdES http://www.w3.org/TR/XAdES/ -- aka. ETSI TS 101 903 XML-Signature Syntax and Processing. W3C Recommendation. Donald Eastlake, Joseph Reagle, David Solo. February 2002. http://www.w3.org/TR/2002/REC-xmldsig-core-20020212/ ASTM E1762-95(2013) – Standard Guide for the Authentication of Health Care Information http://www.astm.org/cgi-bin/SoftCart.exe/STORE/filtrexx40.cgi?U+mystore+odvl4256+-L+ASTM:E1762+/usr6/htdocs/astm.org/DATABASE.CART/REDLINE_PAGES/E1762.htm
Document Metadata Subscription (DSUB)	Document Metadata Subscription subscribes for metadata-triggered notifications within an XDS Affinity Domain and across communities.	OASIS Web Services Notification Family of Standards WS-Base Notification 1.3 OASIS Standard WS-Brokered Notification 1.3 OASIS Standard WS-Topics 1.3 OASIS Standard ITI TF-2b: 3.43.4.2.2 ITI TF-2x: Appendix V

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IHE Profile	IHE Profile Description	Referenced Standards
		OASIS Web Services Notification Family of Standards WS-Base Notification 1.3 OASIS Standard WS-Brokered Notification 1.3 OASIS Standard 620 WS-Topics 1.3 OASIS Standard OASIS Web Services Notification Family of Standards WS-Base Notification 1.3 OASIS Standard WS-Brokered Notification 1.3 OASIS Standard 620 WS-Topics 1.3 OASIS Standard
Enterprise User Authentication (EUA)	Enterprise User Authentication enables single sign-on inside an enterprise by facilitating one name per user for participating devices and software.	HL7 Context Management 'CCOW' Standard, Version 1.4: Technology and Subject Independent Architecture, Component Technology Mapping: ActiveX, Component Technology Mapping: Web. Subject Data Definitions RFC1510 The Kerberos Network Authentication Service (V5) HL7 Context Management 'CCOW' Standard, Version 1.4: Technology and Subject Independent Architecture, Component Technology Mapping: ActiveX, Component Technology Mapping: Web. Subject Data Definitions
Healthcare Provider Directory	Healthcare Provider Directory supports discovery and management of healthcare provider information, both individual and organisational, in a directory structure.	DSMLv2 SOAP/HTTP(S)
Internet User Authorisation (IUA)	Internet User Authorisation provides user authorisation for RESTful interfaces.	
Mobile access to Health Documents (MHD)	Mobile access to Health Documents provides a RESTful interface to Document Sharing including XDS.	REST/HTTP(S), FHIR
Mobile Alert Communication Management (mACM)	Mobile Alert Communication Management provides a RESTful interface to an alert infrastructure.	REST/HTTP(S), FHIR HL7 FHIR HL7 Version 2.6 ISO/IEEE 11073-10201 ISO/IEEE 11073-10101 Nomenclature World Geodetic System WGS-84 IETF RFC7159 - JSON XML HTTP 1.1 XML Schema 1.1
Mobile Care Services Discovery (mCSD)	Mobile Care Services Discovery provides a RESTful interface to discover Care Services: Organisation, Location, Practitioner, and Health Services.	HL7 FHIR JSON – IETF RFC7159 XML HTTP 1.1

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Printed by and obtainable from the Government Printer, Bosman Street, Private Bag X85, Pretoria, 0001
Contact Centre Tel: 012-748 6200. eMail: info.egazette@gpw.gov.za
Publications: Tel: (012) 748 6053, 748 6061, 748 6065

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Government Gazette
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REPUBLIC OF SOUTH AFRICA
REPUBLIEK VAN SUID AFRIKA

Vol. 688 | 21 October / Oktober | 2022 | No. 47337

PART 2 OF 2

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ISSN 1682-5845

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IHE Profile	IHE Profile Description	Referenced Standards
Mobile Cross-Enterprise Document Data Element Extraction	Mobile Cross-Enterprise Document Data Element Extraction accesses data elements extracted from shared structured documents.	
Multi-Patient Queries (MPQ)	Multi-Patient Queries aggregates queries to a Document Registry for data analysis such as provider accreditation, clinical research trial data collection or population health monitoring.	ITI TF-2X: Appendix V Web Services for IHE Transactions. ebRIM OASIS ebXML Registry Information Model v3.0 ebRS OASIS ebXML Registry Services Specifications v3.0 ITI TF-2a: 3.18 Registry Stored Query [ITI-18] ITI TF-3: 4 Metadata used in Document Sharing profiles
Non-patient File Sharing (NPFSm)	Non-patient File Sharing defines how to enable the sharing of non-patient files. Those files can be created, consumed and updated by many different systems involved in a wide variety of data sharing workflows (clinical workflow definition, domain policies sharing, stylesheets management, etc.).	HL7 FHIR RFC2616 RFC7540 RFC3986 RFC6585
Patient Administration Management (PAM)	Patient Administration Management establishes the continuity and integrity of patient data in and across acute care settings, as well as among ambulatory caregivers.	XML V1.0 (MIOS) HL7 Version 2.5 ISO/TR 20514:2005 ISO 18308:2011
Patient Demographics Query (PDQ)	Patient Demographics Query queries patient identity by patient demographics from a central patient information server.	HL7 2.5
Patient Demographics Query for Mobile	Patient Demographics Query for Mobile provides a RESTful interface to a patient demographics supplier.	REST/HTTP(S), FHIR
Patient Identifier Cross-reference for Mobile (PIXm)	Patient Identifier Cross-Reference for Mobile provides a RESTful interface to patient identifier cross-references.	REST/HTTP(S), FHIR
Patient Identifier Cross-referencing (PIX)	Patient Identifier Cross Referencing queries for patient identity cross-references between hospitals, sites, health information exchange networks, etc.	HL7 Version 2.5 HL7 Version 2.3.1 HL7 2.5
Patient Identifier Cross-referencing for HL7v3 (PIXv3)	Patient Identifier Cross-Reference HL7v3 extends the Patient Identifier Cross-Reference profile leveraging HL7 version 3.	HL7 Version 3 SOAP/HTTP(S)
Patient Location Tracking (PLT)	Patient Location Tracking tracks the location of a patient within a facility.	
Patient Master Identity Registry	This profile provides a RESTful patient identity management.	HL7 FHIR R4
Patient Synchronised Application	Allows cooperating applications on a workstation to synchronise to selected patient context.	HL7 Context Management "CCOW" Standard, Version 1.4: Technology and Subject Independent Architecture

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IHE Profile	IHE Profile Description	Referenced Standards
		Component Technology Mapping: ActiveX Component Technology Mapping: Web Subject Data Definitions
Personnel White Pages (PWP)	Personnel White Pages provides basic directory information on human workforce members within an organisation.	RFC2181; RFC2219; RFC2782 DICOM RFC2181; RFC1766; RFC2251; RFC2252; RFC2253; RFC2256 RFC2798; RFC2829; RFC2830 RFC3377; ISO/TS 17090; ITU-T: E.123; CRU; HL7 Version 2.5
Remove Metadata and Documents (RMD)	Remove Metadata and Documents removes documents and related metadata.	SOAP/HTTP(S), ebXML SOAP/HTTP(S) ebXML ebRIM ebRS
Retrieve Form for Data Capture (RFD)	Retrieve Form for Data Capture requests forms from clinical trial sponsors and public health reporting.	ITI TF-2x: Appendix V RFC1738 RFC2616 XML V1.0 (MIOS) XHTML™ 1.0 W3C XHTML™ Basic RFC1738 RFC2616 XML V1.0 (MIOS) ITI TF-2x XForms 1.1
Retrieve Information for Display (RID)	Retrieve Information for Display provides simple (browser-based) read-only access to clinical information (e.g., allergies or lab results).	RFC1738, RFC2616 W3C XHTML™ 1.0 XHTML™ Basic. RFC2616 W3C XML (XML V1.0 (MIOS) W3C WSDL
Secure Retrieve (SeR)	Secure Retrieve defines a model for Access Control for XDS environments that have a centralised Access Control Decision, with Document Repository enforcement.	OASIS SOAP v1.2 OASIS Security Assertion Markup Language (SAML) v2.0 OASIS eXtensible Access Control Markup Language (XACML) v2.0 OASIS Multiple resource profile of XACML v2.0 OASIS SAML 2.0 profile for XACML v2.0 OASIS Cross-Enterprise Security and Privacy Authorization (XSPA) Profile of SAML v2.0 for Healthcare Version 2.0 (not normative)
SeR & XDS	Secure Retrieve defines a model for Access Control for XDS environments that have a centralised Access Control Decision, with Document Repository enforcement. Cross-Enterprise Document Sharing shares and discovers electronic health record documents between healthcare enterprises, physician offices, clinics, acute care in-patient facilities and personal health records.	ebRIM ebRS

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IHE Profile	IHE Profile Description	Referenced Standards
Sharing Value Sets (SVS)	Sharing Value Sets distributes centrally-managed, common, uniform nomenclatures.	HL7 Version 3 SOAP/HTTP(S) DSMLv2 SOAP/HTTP(S)
XDS Affinity Domain Patient ID (XAD-PID) Change Management (XPID)	Change Management updates the relationship between XDS Affinity Domain patient identifiers and other patient identifiers.	MLLP(S), HL7 v2.5
XDS Metadata Update		HL7 Version 3 SOAP/HTTP(S)

To ensure backwards compatibility, the following have been included. These are not part of the IHE ITI profiles.

TABLE 3: 2014 HNSF BACKWARDS COMPATIBILITY

Function Group	Function	IHE profile in HNSF 2014	Compatibility in HNSF 2021	Referenced standards
Identification, authentication and authorisation	Identify patient	None	XUA	-
	Authenticate patient	None	XUA	-
	Authenticate provider	None	XUA	-
	Authorise provider roles and permissions	None		ANSI INCITS 359-2004 ISO/TS 22600:1-3
Retrieve patient record	Display only	RID	-	RFC1738 XML WSDL XHTML
Update patient record	Add, query and update medical history	Cross-Enterprise Sharing of Medical Summaries (XDS-MS)	XDS	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS
	Add, query and update clinical observations	XDS-MS	XDS	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS
	Add, query and update interventions	XDS-MS	XDS	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS
	Add and query referrals	XDS-MS Referral Summary	XDS	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS

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Function Group	Function	IHE profile in HNSF 2014	Compatibility in HNSF 2021	Referenced standards
	Add and query pharmacy orders	XDS-PRE	XDS	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS
	Add and query drugs dispensed	XDS-DIS	XDS	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS
	Add and query laboratory test results	XD-LAB	-	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS
	Add and query radiology test results	SINR	-	DICOM 2011, [ISO/IEC 12052]) (MIOS)
		XDS-I.b	XDS	DICOM 2011, [ISO/IEC 12052]) (MIOS)
	Add, update and query discharge summary	XDS-MDS	XDS	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS
	Add, query, and update antenatal care events	XDS-APS	XDS	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS
	Add and query birth details	XDS-LDS	XDS	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS
	Add, query and update care plan	PPOC	-	XML V1.0 (MIOS) RFC 2616 (MIOS) ISO/IEC 9075 (MIOS) ebMS ebRIM ebRS

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Function Group	Function	IHE profile in HNSF 2014	Compatibility in HNSF 2021	Referenced standards
Scheduling	Schedule appointment	none	ECAS profile in the Eye Care Domain	
	Send reminders	none	-	
Emergency medical services peripheral	Contact ambulance	None	ETS profile in Patient Care Coordination domain	
	Dispatch ambulance	None	ETS profile in Patient Care Coordination domain	
	Route ambulance	none	ETS profile in Patient Care Coordination domain	
Supply chain management peripheral	Update and manage pharmacy stock	none	-	
Create billing account	Add, query and update bills	None	CHG in the Eye Care domain	XML V1.0 (MIOS)
	Submit medical bills for payment	None	CHG in the Eye Care domain	UN/EDIFACT
Generate metrics	Aggregate query	MQL	-	ebRIM ebRS
	Add, query and update health indicator	none	-	SDMX-HD

The 2021 HNSF, endeavours, within the IHE framework, to be backwards compatible with the HNSF 2014 version. The IHE profiles in *Final Text*[19] are maintained in a backward compatible manner. In this regard, the IHE does not guarantee, but makes every possible effort to maintain backward compatibility between *Trial Implementation* versions, or when profiles move from *Trial Implementation* to *Final Text* status. It is recommended that current maturity levels of the profiles are noted as profiles marked for *Trial Implementation*, although not subject to change for the duration of the profiles' *trial use*, are likely to change before the publication of the *Final Text*.

[19] IHE profiles are maintained by the IHE technical committees through the identification and correction of errata, utilising the IHE Change Proposal Process. They progress through various rigorous iterations from Draft Supplement (not yet ready for Public Comment); Public Comment (a new profile published for public comment, [not implementation]); Public Comment (a Trial Implementation profile republished for Public Comment); Trial Implementation not subject to change during trial use (however, changes will be permitted prior to Final Text); and Final Text (stable). https://www.ihe.net/resources/technical_frameworks/

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2021 HNSF AND FHIR

With regards to FHIR, it should be noted that the IHE profiles are purposefully based on established and stable underlying standards. However, FHIR has shown a significantly high rate of industry adoption and offers some noteworthy benefits for established use cases. As such, IHE profiles based on FHIR have been incorporated and are subject to IHE updates and republishing as the underlying standard evolves. Deployments utilising these profiles would need to evolve alongside their updates to remain interoperable and conformant with an updated IHE profile[20].

[20] For example, at the time of writing this document, the profile Mobile Care Services Discovery (mCSD20) specifies in the IHE IT Infrastructure Technical Framework Supplement20, dated 6 March 2019, referenced HL7 FHIR standard Release 4, whereas the profile Patient Identifier Cross-reference for Mobile (PIXm20) specifies in IHE IT Infrastructure Technical Framework Supplement PIXm dated 24 July 2018, referenced HL7 FHIR standard Release 3. As such, the IHE profiles guide the selection of the underlying standard, as well as the specific version of the standard that needs to be adhered to. Considering the rate of evolution of the FHIR standards, it was thought prudent to exclude an explicit reference to a specific FHIR version in this document. HL7 describes FHIR Change Management and Versioning at https://www.hl7.org/fhir/versions.html.

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2021 HNSF IMPLEMENTATION

NATIONAL INTEROPERABILITY USE CASES

South Africa's approach to Health Information System interoperability is based on an agreed set of standards. The HNSF takes up the role of communicating the set of standards to all stakeholders in the South African digital health domain, and so enables digital health interoperability for a fully interoperable South African digital healthcare environment. The IHE profiles and the associated data exchange standards are then critical building blocks for achieving digital health interoperability in South Africa.

However, the selected profiles need to be relevant and useful for the South African digital healthcare domain stakeholders. This is set to be achieved through a process of *localisation* of the selected IHE profiles. Localisation firstly entails the identification of National Interoperability Use Cases. From these cases, experts will draft detailed National Interoperability Specifications that will act as Implementation Guides.

The National Interoperability Specifications include Business Instances and Implementation Outlines that are relevant to the National Interoperability Use Cases[21]. From these high level Business Instances and Implementation Outlines, detailed specifications for the flow of information among the different health information systems are provided through the articulation of *extensions* to the established standards in order to cater for the local South African environment. It is these detailed specifications, described in implementation guides, that need to be implemented by industry and other stakeholders, and that are assessed for conformance to the HNSF. Amongst other things, the National Interoperability Specifications will detail specific local value sets and will prescribe their use for implementation in South Africa.

The digital health domain stakeholders are supported in their uptake and use of the HNSF and National Interoperability Specifications through Connectathons (conformity assessments marathons), Projectathons (interoperability assessment marathons) and informal conformity assessments to standards.

Gaps in the 2021 HNSF and future HNSF iterations are identified, prioritised and addressed as part of the localisation process. Future iterations of the HNSF is envisaged to address specific health domains and to cater for health innovations. Implementation Guides for the National Interoperability Specifications are published as extensions to the HNSF and are prescriptive in nature.

The process of identifying and prioritising National Interoperability Use Cases is depicted in Figure 2.

[21] See Annexure 4

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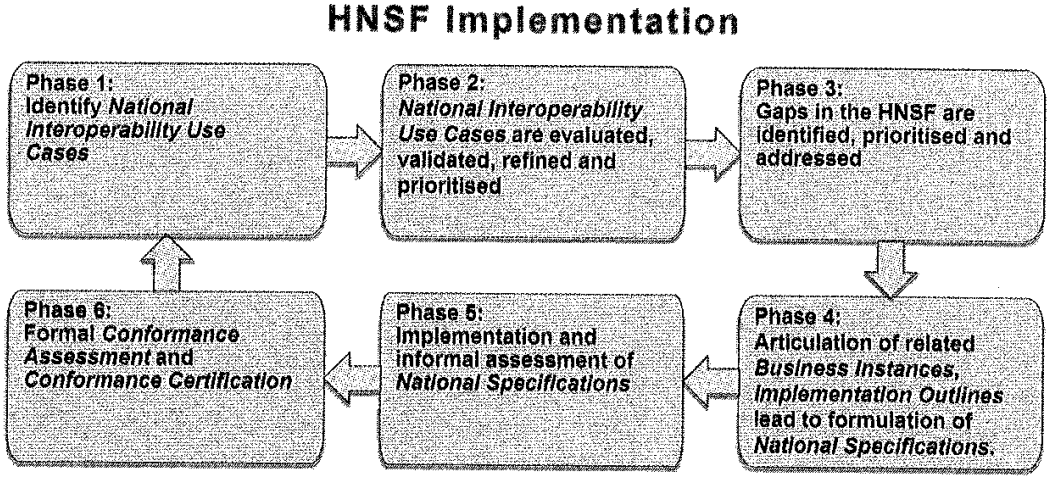


FIGURE 2: HNSF IMPLEMENTATION

The selection of National Interoperability Use Cases, articulation of ensuing National Interoperability Specifications, and the eventual Conformance Assessment and Conformance Certification consist of six phases, as described in Table 4.

TABLE 4: HNSF IMPLIMENTATION

Phase #	Description	Participants	Approach	Deliverable
1	Identify National Interoperability Use Cases	• NDoH (lead) • CSIR • IHE	• Digital health community feedback • Workshops • Secondary research	• 3 – 5 National Interoperability Use Cases
2	National Interoperability Use Cases are evaluated, validated, refined and prioritised	• NDoH (lead) • CSIR • IHE • Digital health community	• Digital health community feedback (e.g., surveys, questionnaires) • Workshops • Secondary research	• Consultation process feedback • Refined National Interoperability Use Cases. • Prioritised National Interoperability Use Cases.
3	Identify gaps in the HNSF and address them	• NDoH • CSIR • Digital health community	• Domain Innovation • Consultation process • Approval process (Document, review, gazette and publish) • Dissemination	• Draft HNSF • Consultation feedback • Updated HNSF
4	Articulation of related National Interoperability Specifications.	• NDoH • CSIR • IHE • Digital health community	• Workshops • Working Groups • Consolidation work • Publication of National Interoperability Specifications • Populating Shared Value Sets	• National Interoperability Specifications Document • Updated Shared Value Sets
5	Implementation and informal assessment	• CSIR • IHE	• Various software development	• Connectathon (conformity assessments marathons)

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Phase #	Description	Participants	Approach	Deliverable
	of National Interoperability Specifications	• Digital health community	methods and systems development lifecycles. • Support Digital Health Community • Document, review and publish • Local tests • Conformance lab assessments • Connectathons • Projectathons • Digital health community feedback	• Projectathons (interoperability assessment marathons) • Informal conformity assessment to standards • Acknowledgement of vendor and supplier attendance to Connectathon and/or Projectathons
6	Formal conformance assessment and conformance certification	• NDoH • Relevant certification authority • IHE • CSIR • Digital health community	• Certification Authority to be appointed • Certification process, infrastructure and mandate to be put in place	• Conformance Certification

The phases outlined in Table 4 are repeated iteratively to continually align the health interoperability landscape, as depicted in Figure 3.

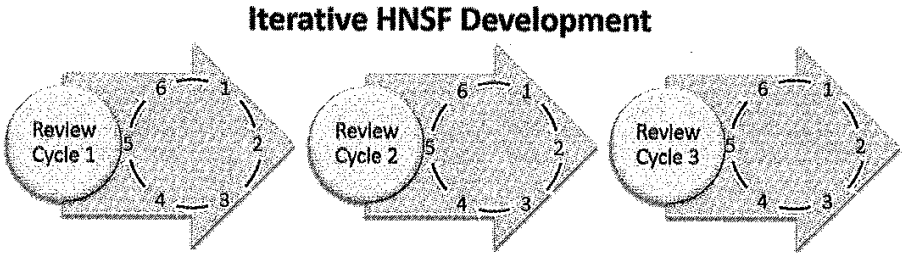


FIGURE 3: ITERATIVE HNSF DEVELOPMENT AND IMPLEMENTATION CYCLES

Details with regards to *National Interoperability Use Cases*, the resulting *Business Instance*, their *Implementation Outline* and *Technical Use Cases* can be found in Annexure 4, where it is unpacked in greater detail.

IMPLEMENTATION OF NATIONAL INTEROPERABILITY USE CASES

A federated architectural pattern will be followed to enable interoperability within a fully interoperable South African healthcare environment. In other words, some health information systems (such as clinical registries) are managed by local and provincial government departments, while others (such as demographic registries) are managed by the NDoH. In addition, some health information systems are privately owned and developed by third parties. As the private health sector forms part of a fully interoperable South African healthcare environment, it will need to share data with the national registries, as prescribed in the NHI

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Bill. This information sharing will be based on the standards defined within the most current version of the HNSF.

The National Interoperability Use Case selection, prioritisation and implementation plan needs to be aligned with the system implementation of the various federated registries, as the maturity of underlying systems will pose a constraint to their selection. Consequently, the following general pattern will be followed, once the National Interoperability Use Cases have been identified and prioritised:

- Step 1: Implement a National Repository (and constraint on National Interoperability Use Case selection);
- Step 2: Develop HIS to comply with the latest version of the HNSF[22] (various HIS);
- Step 3: Developers, vendors and suppliers test their HIS for compliance with the latest version of the HNSF;
- Step 4: Developers, vendors and suppliers attend a Connectathon (conformity assessments marathon) to test their systems for compliance with the HNSF (based on use case and profiles used) by connecting to other Health Information Systems and the various national repositories. Attendance of vendors and suppliers are acknowledged;
- Step 5: Conformance testing of HIS for compliance to the HNSF (based on use case and profiles used) is undertaken. This is done at an NDoH-approved conformance testing lab. Attestation of HNSF compliance is issued; and
- Step 6: Integration into the shared SA National Health Information System takes place, subject to the vendor/suppliers' acceptance of certain terms and conditions, as stipulated by the NDoH. The NDoH provides approval on a case-by-case basis.

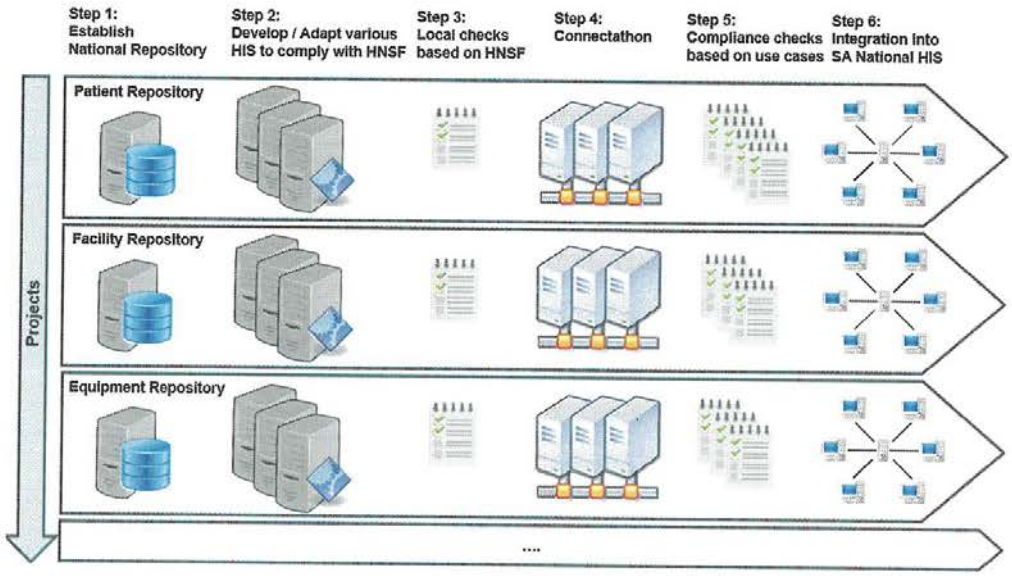


FIGURE 4: USE CASE CONSTRAINT BASED ON NATIONAL RESPOSITORY IMPLEMENTATIONS

[22] Implies the latest version of the HNSF and its implimentation guides.Currently it is the 2020 HNSF

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Another constraint on the implementation plan is the scope of interoperability. The scope is currently limited to the IHE infrastructure domain (profiles). This scope will be expanded with future iterations of the HNSF. The expansion of the scope is prioritised in the plan presented in Figure 5.

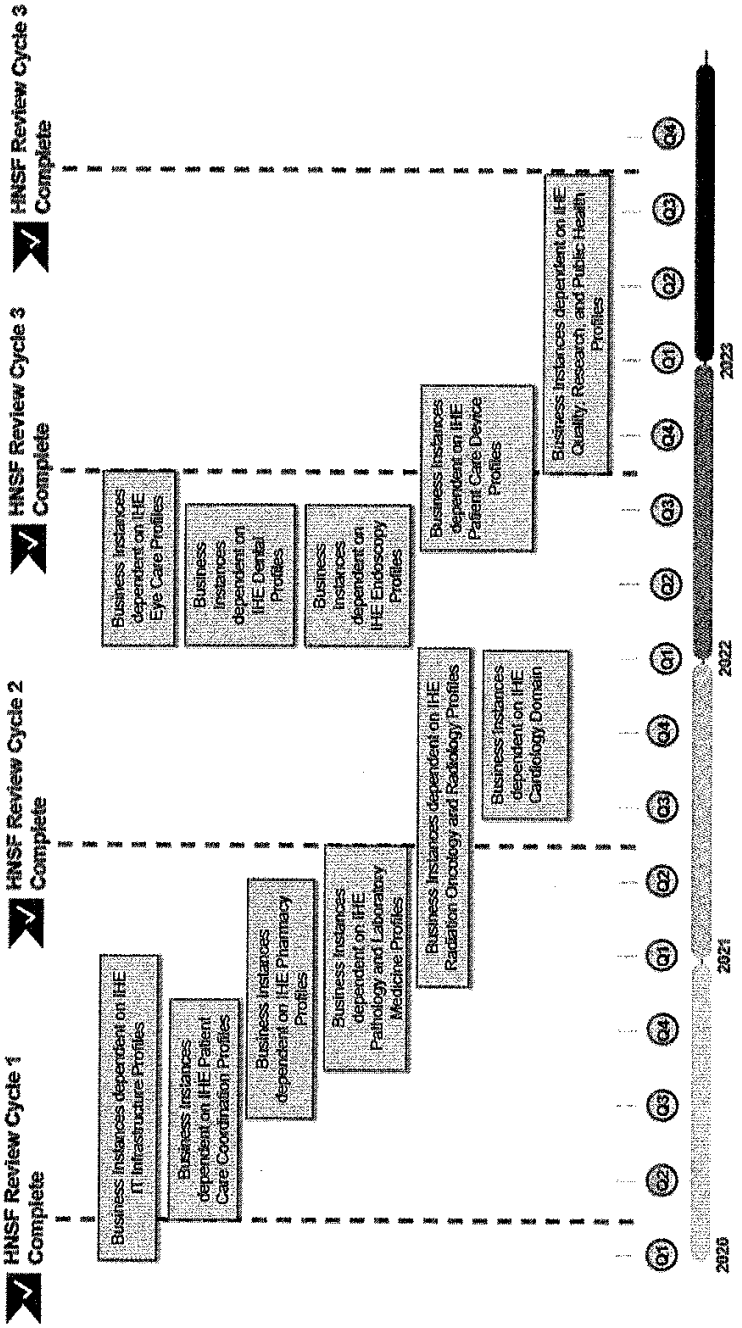


FIGURE 5: BUSINESS INSTANCE IMPLEMENTATION PLAN

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CONCLUSION

The essential role of interoperability in Health Information Systems deployed in the South African healthcare system has been alluded to in the 2018 Presidential Health Compact (PHC), Pillar 9, and articulated in the National Digital Health Strategy for South Africa 2019–2024. The Health Normative Standards Framework (HNSF) forms the cornerstone of the South African interoperability efforts and supersedes the 2014 HNSF version. The purpose of the HNSF is to act as a key enabler of the efficient and safe flow of healthcare-related person-centred information across institutional and provincial boundaries. This will facilitate a systems-wide fully interoperable South African healthcare environment. The 2021 HNSF outlines a domain collaboration for a national consensus by applying an agreed set of standards that are aligned, integrated, flexible, reusable and portable and has a reduced time to market.

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ANNEXURES

ANNEXURE 1: POLICY AND REGULATORY CONTEXT

The policy and regulatory context that frames the HNSF is linked to the components of a National eHealth Strategy, as described by the National eHealth Strategy Toolkit[23] of the WHO.

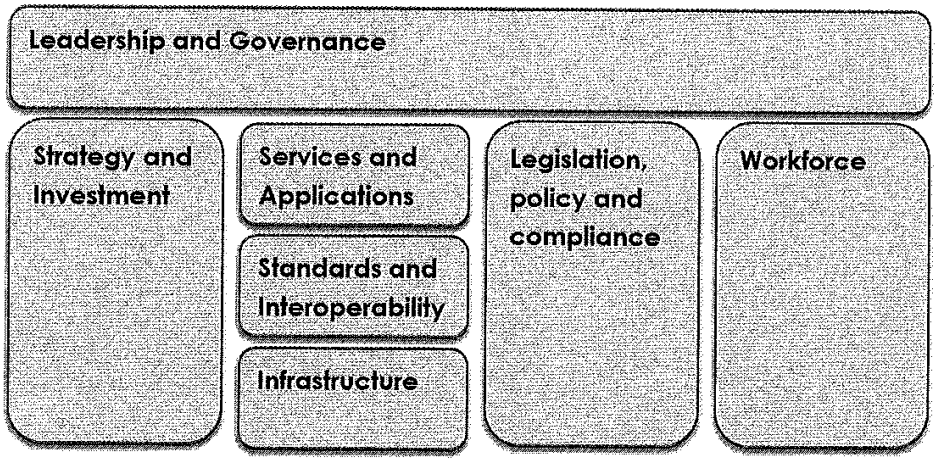


FIGURE A.1 THE COMPONENTS OF A NATIONAL EHEALTH STRATEGY STIPULATED BY THE EHEALTH STRATEGY TOOLKIT

The *eHealth European Interoperability Framework*[24] refers to the legislation, policy and compliance component of the WHO, in three dimensions:

- *Legal and regulatory* involves compatible legislation and regulatory guidelines that define the boundaries for interoperability across borders, but also within a country. The purpose of regulations is the safety of the person.
- *Policy* is the mechanism by which information exchange and collaboration agreements between organisations must be made. The purpose and value of the collaboration must be set. Trust and responsibilities between the organisations are formalised at the policy level. Governance documents anchor the governance of collaboration.
- *Care processes* is the dimension where specific care processes are analysed and aligned, resulting in integrated care pathways and shared workflows that prescribe the information that is needed to deliver integrated care. This includes compliance to standards, as illustrated in Figure A.1.

The WHO does not refer to the care processes, but explains that the legislation, policy and compliance component includes an adoption to national policies and legislation in priority areas; reviews sectoral policies for alignment and comprehensiveness; and establishes regular policy reviews. The aforementioned dimensions create a legal and enforcement

[23] World Health Organization (WHO). 2012. National eHealth Strategy Toolkit. Retrieved October 2019. Retrieved from https://www.itu.int/dms_pub/itu-d/opb/str/D-STR-E_HEALTH.05-2012-PDF-E.pdf.

[24] Joint Action supporting the eHealth Network (JAseHN). 201). eHealth Network: Refined eHealth European Interoperability Framework. Retrieved March 2020. Retrieved from https://ec.europa.eu/health/sites/health/files/ehealth/docs/ev_20151123_co03_en.pdf

environment within which to establish trust and protection for consumers and industry in eHealth practice and systems. The WHO also stresses under the standards and interoperability component (Figure A.1) that standards should be introduced that enable consistent and accurate collection and exchange of health information across health systems and services.

These dimensions are found under interoperability governance that, according to the WHO, ensures that strategic policy frameworks exist and are combined with effective oversight, coalition building, regulation, attention to system-design and accountability. Hence, governance can be seen as policy-centric, and includes consideration of all actors involved.

Under regulatory authorities, one also has to consider the following legislative and policy frameworks that frame any implementation of the HNSF:

- National Health Insurance Bill, 2018;
- National Health Act, Act 61 of 2003;
- National Digital Health Strategy 2019;
- State Information Technology Agency Act, Act 88 of 1998;
- The Minimum Information Interoperability Standards (MIOS);
- The Minimum Information Security Standard;
- The National Archives and Record Service of South Africa Act, Act 43 of 1996;
- The Policy of Free and Open Source Software Use for South African Government;
- Spatial Data Infrastructure Act, Act 54 of 2003;
- Electronic Communications and Transactions Act, Act 25 of 2002;
- Promotion of Access to Information Act, Act 2 of 2000;
- Statistics Act, Act 6 of 1999;
- Regulation about the Control of Private Hospitals, Regulation 158 of 1996;
- Protection of Personal Information Act 2013; and
- National e-Government Strategy and Roadmap 2017.

The HNSF's purpose is to advance the importance of developing an interoperable SA NHIS. The same development was echoed by the Presidential Health Compact (PHC) of 2018, especially Pillar 9, which deals with the development of an information system that will guide the health system policies, strategies and investments. Hence, the HNSF is advancing the PHC Pillar 9 through this section of the document.

The HNSF also aligns to the National Digital Health Strategy for South Africa 2019–2024[25], with its vision of a "better health for all South Africans enabled by person-centred Digital Health". The strategy proposes several strategic interventions that should be achieved by 2024, one of which is to "establish an integrated information architecture for interoperability and effective, safe sharing of health information across health systems and services" in South Africa. This is a key point that can be enabled by the HNSF.

The HNSF is aligned to an agreed level of interoperability of functionalities of the NHI Bill[26]. The NHI aims to provide for the sustainability of funding for healthcare services, and to make

[25] NDoH. 2019. National Digital Health Strategy for South Africa, *2019–2024*. South Africa.

[26] National Health Insurance Bill. Retrieved March 2020 from https://www.gov.za/sites/default/files/gcis_document/201908/national-health-insurance-bill-b-11-2019.pdf

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provision for equity and efficiency in funding by pooling funds and strategic purchasing of healthcare services, medicines, health goods and products from accredited and contracted healthcare service providers. According to the NHI Bill[27], an information platform will enable informed decision-making on population health needs assessment, financing, purchasing, patient registration, service provider contracting and reimbursement, utilisation patterns, performance management, setting the parameters for the procurement of health goods, and fraud and risk management.

The exchange of healthcare-related information is then facilitated by the interoperability standards articulated in the HNSF. For the NHI Fund to operate effectively and efficiently, it has to contribute to the development and maintenance of a national health information system as contemplated in Section 74 of the National Health Act, , and subject to the provisions of the National Archives and Record Services of South Africa, 1996 (Act No. 43 of 1996), the Protection of Personal Information Act, 2013 (Act No. 4 of 2013), and the Promotion of Access to Information Act (Act No. 2 of 2000), which state that accurate and accessible data should be available to the NDoH and the NHI Fund, or any other stakeholder legally entitled to such information. This relates to security and privacy of personal information and is important for data governance. Under interoperability governance, data governance is also necessary because it encompasses the people, processes and information technology that are required to create consistent and proper handling of an organisation's data across the business enterprise.

COBIT[28] is the proposed governance model that was accepted in 2012 by the South African Government[29] (section 5:3), and that is informed by the approved Corporate Governance of ICT Policy Framework (CGICTPF), the Governance of ICT Framework (GICTF) and COBIT[30]. Governance in all government departments should align with the CGICTPF and GICTF. COBIT 2019 involves compatible legislation and regulatory guidelines that define the boundaries for interoperability across borders, but also within South Africa.

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[27] National Health Insurance Bill, Retrieved March 2020. Retrieved from https://www.gov.za/sites/default/files/gcis_document/201908/national-health-insurance-bill-b-11-2019.pdf

[28] COBIT (Control Objectives for Information and Related Technologies) 2019. www.isaca.org

[29] South Africa Public Service and Administration. 2012. *Public Service Corporate Governance of Information and Communication Technology Policy Framework*. Retrieved from https://www.gov.za/sites/default/files/gcis_document/201409/cgictpolicyframework.pdf

[30] South Africa Department of Justice and Constitutional Development. (2012). Corporate Governance of ICT: Policy Framework and Charter. Pretoria: Department of Justice and Constitutional Development.

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ANNEXURE 2: IHE CORE COMPONENTS

Consistent with the arguments put forward in the 2014 version of the HNSF, the 2021 HNSF includes the IHE IT Infrastructure (ITI) domain profiles, as these establish a foundation for the sharing of healthcare information, and were deemed the most appropriate to articulate towards national interoperability. The IT Infrastructure Profiles represent common IT functions (e.g., Maintain Time) that are used as building blocks for a variety of health-related Business Instances.

The standards-based IHE profiles coordinate several base standards to ensure the outcome of a health domain-related function. The notion of the IHE core components (Profile, Actor and Transaction), as depicted in Figure A.2, is further clarified in Table A.5. The Open Systems Interconnection seven-layer model explains an application layer as the user interface that is responsible for displaying received information to the user, and an integration layer as the location where the mechanics of data consolidation are outlined[31].

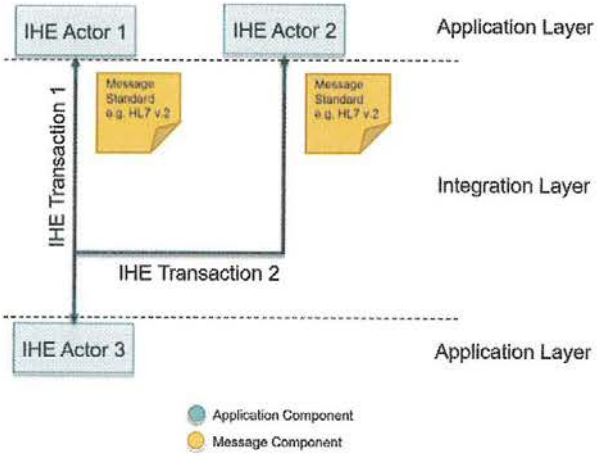


FIGURE A.2 IHE CORE COMPONENTS[32]

TABLE A.5 IHE CORE COMPONENTS

Components	IHE Definition (Technical Framework, Volume 1)	Description	Example
Profile	Each profile is a representation of a real-world capability, which is supported by a set of actors that interact through transactions.	A set of actors and transactions	Patient Identifier Cross-referencing (PIX) profile
Actor	Actors are Information Systems or components of Information Systems that produce, manage, or act on categories of information required by operational activities in the enterprise.	An application role in a distributed system	PIX Manager
Transaction	Transactions are interactions between actors that communicate the required information through standards-based messages.	A message exchange between actors	Patient Identity Feed between the Patient Identity Source and the PIX Manager (ITI-8)

[31] IEEE. (1990). *IEEE Standard Computer Dictionary: A Compilation of IEEE Standard Computer Glossaries*. www.ieee.org: Institute of Electrical and Electronics Engineers, 2018.

[32] https://oehf.github.io/ipf-docs/docs/ihe/

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ANNEXURE3: NATIONAL INTEROPERABILITY USE CASES UNPACKED

The identification and formulation of National Interoperability Use Cases[33] would be the first step in implementing the HNSF. The NDoH identifies these based on national priorities. These National Interoperability Use Cases frame the articulation of the National Interoperability Specifications on the one hand and, on the other, the identification of gaps that would need to be addressed in future HNSF iterations.

The National Interoperability Use Cases, Business Instances, Implementation Outline, Technical Use Case and resulting integration profiles understanding and relationship are outlined below[34].

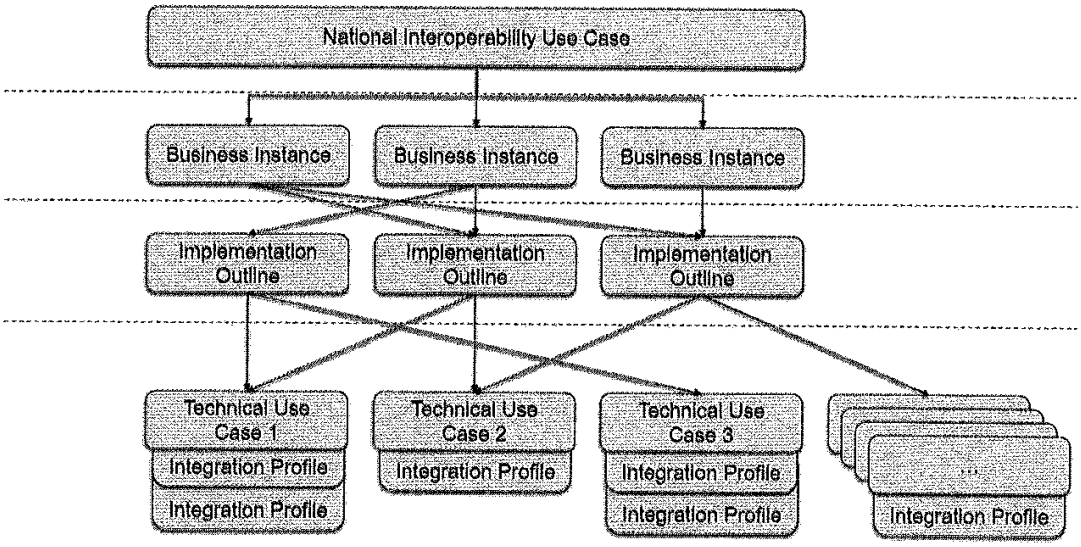


FIGURE A.3 GENERIC EXAMPLE OF THE RELATIONSHIP BETWEEN VARIOUS INTEROPERABILITY CONCEPTS[35]

- *National Interoperability Use Case*: A National Interoperability is seen as an overall description of a need for information sharing within, and across, healthcare organisations that use health information technology, often linked to the health objectives. It is written by users in a natural language and may include several healthcare-related *Business Instances*. A National Interoperability Use Case is developed by the users of the HIS, and the target audience is HIS decision makers. National Interoperability Use Cases are specific use cases within the context of a fully interoperable environment in South Africa, and ought to be prioritised to meet the needs of the South African health domain.
- *Business Instance*: A *Business Instance* is a description of a specific example of

[33] The term 'National Interoperability Use Case' refers to the use cases identified and prioritised at national level towards facilitating interoperability in the emerging SA NHIS.

[34] Bourquard, K., Orlova, A., & Parisot, C. (2017). Understanding User Needs for Interoperability: Defining Use Cases in eHealth. Journal of AHIMA, 88(6), 42.

[35] Orlova, Anna; Bourquard, Karima; Parisot, Charles. "Understanding User Needs for Interoperability: Standards for Business Cases in eHealth" Journal of AHIMA 88, no.7 (July 2017): 34–37.

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Health Information System used for information sharing within the Use Case. Several Business Instances may derive from a single Use Case. Business Instances include a depiction of *business actors* (humans) and *technical actors* (systems), scope and workflows of tasks performed by healthcare professionals and associated data flows. It is written in a natural language and may include several *Implementation Outlines*. A Business Instance is developed by the users of the Health Information System, and the target audience is Health Information System healthcare professionals.

- *Implementation Outline*: An *Implementation Outline* is a description of a subset of workflow steps and data requirements within specific Business Instances from the business actors' perspectives, as well as specific transactions of technical actors (systems) to support workflow steps and data requirements. Examples of transactions include send–receive data, data query, and others. It is written in a natural language and may include several technical use cases for the selected transaction. It is described in Volume 1 of the IHE profile. Implementation Outlines are developed by users and IT specialists of the HIS, and the target audience is project managers, system architects, and implementers.
- *Technical Use Cases*: *Technical use cases* describe a need for a specific transaction between technical actors (systems, IHE actors) that supports the Implementation Outline. They are written in technical language and may include several implementation options enabled by individual standards selected for the transaction. They are described in Volume 2 of the IHE Technical Framework Documents. Technical use cases are developed by IT specialists, and the target audience is system architects and implementers.

In summary, the selection of National Interoperability Use Cases would enable the selection of profiles and underlying standards, as well as the verification and identification of gaps in the standards framework. This would lead to the selection of additional relevant standards and value sets through a localisation process.

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DEPARTMENT OF HOME AFFAIRS

NO. 2668 **21 October 2022**

ALTERATION OF SURNAMES IN TERMS OF SECTION 26 OF THE BIRTHS AND DEATHS REGISTRATION ACT, 1992 (ACT NO. 51 OF 1992)

The Director-General has authorized the following persons to assume the surnames printed in *italics*

Notice is hereby given of Government Gazette No.**46917** which, was published in Government Gazette No **2503** dated **16 September 2022**, is hereby rectified to read as follows

1. Thamsanza Meshack Jiyane - 8900806 5218 *** - 362 Block JJ , SOSHANGUVE, 0152 - *Ngxiya*
2. Phumudzo Calvin Thukhutha - 800307 5485 *** - Zomuraleni Village, , MAKHADO, 0920 - *Matodzi*
3. Thabang Titus Mahlangu - 920105 5610 *** - 441 Ndlovustand, Mabopane, KLIPGAT, 0190 - *Motileng*
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Notice is hereby given of Government Gazette No.**46959** which, was published in Government Gazette No **2522** dated **23 September 2022**, is hereby rectified to read as follows

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2. Tshiamo Mashilwane - 991022 5496 *** - 19827 Giraffe Street, , MAMELODI EAST, 0122 - *Motau*
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4. Tshegofatso Refilwe seshigoane - 850306 0328 ** - 5833 Zone 5, , GA RANKUWA, 0208 – *Tshilwane*

Notice is hereby given of Government Gazette No.**46917** which, was published in Government Gazette No **2503** dated **16 September 2022**, is hereby rectified to read as follows

1. Thamsanqa Khoza - 870327 5366 *** - your wife – Wendy Nontokozo Khoza – 840921 0876 *** - and three minor children – Lwandle Anezelwe Khoza – 180920 1479 *** - Khethokuhle Asavela Khoza – 120522 6026 *** -Gcebo Owami Khoza – 091114 6010 *** - Hlophekhulu Area, , MAHLABATHINI, 3865 - *Ncanana*

DEPARTMENT OF HOME AFFAIRS

NO. 2669 **21 October 2022**

ALTERATION OF FORENAMES IN TERMS OF SECTION 24 OF THE BIRTHS AND DEATHS REGISTRATION ACT, 1992 (ACT NO. 51 OF 1992)

The Director-General has authorized the following persons to assume the forename printed in *italics*:

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3. Vuyokazi Wana - 651128 0569 *** - Chris Hani Location,, TSOLO, 5110 - *Nozuko Alice*
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12. Lesetja Michael Nyatlo - 801227 5572 *** - 020171 Mapela Houses, Parakisi Village, , MOKOPANE, 0610 - *Mpjanaswana Michael*
13. Sello George Phaladi - 770610 6046 *** - 200 Rdp,, SIYABUSWA, 0472 - *Nathi Gucci*
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113. Mankung Johannes Mashiloane - 961029 5669 *** - Kgaruthuthu,, MARISHANE, 1064 – *Their Precious*

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148. Savitri Pillay - 720715 0090 *** - 618 Elzine Street,, CENTURION, 01183 - *Charmaine*

149. Nomgqibelo Patience Radebe - 841006 0787 *** - 63160 Zone 16,, SEBOKENG, 1983 - *Honey Nomgqibelo*

150. Cheslyn January - 880830 5149 *** - 91 Tulip Street,, MITCHELLS PLAIN, 7789 - *Moegamat Qassiem*

151. Katriena Pieterse - 870216 0220 *** - Albartos Laan H,, VELDDRIFT, 7365 - *Suzy*

152. Rosann Maharaj - 860727 0162 *** - 38 Teal Place,, LOTUS PARK, 4113 - *Xiahrah Kai*

153. Thevan Naicker - 820907 5230 *** - 18 Upper , 5th Avenue, , SHERWOOD PARK, 7764 - *Abdul Aziz*

154. Nonhlanhla Cresentia Khaoli - 881008 0547 *** - 155 Lyndhurst Roads,, LYNDHURST, 1609 - *Naomi*

155. Isabel Elizabeth Seddon - 550224 0176 *** - 74 Van Rensburg Road,, GOODWOOD, 7490 - *Isobel Elizabeth*

156. Chryzhan Norma Adonis - 870808 0040 *** - 74 Dalton Road,, BELHAR, 7493 - *Razaan*

157. Leanne Snyman - 820602 0093 *** - 33 Mon Repos Crescent,, WELGELEGEN, 7500 - *Leanne Henning*

158. Ferghanah Adams - 770524 0131 *** - 36 Dien Street,, GRASSY PARK, 7941 - *Farghanah*

159. Shamiela Daniels - 790205 0212 *** - 12 St Vincent Drive, Extension 21, , BELHAR, 7493 - *Carmen*

160. Eeton Ricado Albanie - 790603 5142 *** - 18 Klipspringer Street,, PAARL, 7646 - *Elton Ricardo*

161. Marti-Mari Smal - 840305 0036 *** - Plaas 552, Vogelstruis Pan, , MOOKGOPHONG, 0560 - *Esther*

162. Andrew John Pick - 810125 5133 *** - 25 Guy Ally,, DELFT SOUTH, 7100 - *Anwah*

163. Bernice Burmeister - 820427 0112 *** - Home Affairs , Oxford Street, , EAST LONDON, 5241 - *Jessica Bernice*

164. Juan Dawid Tersius Buffel - 870609 5154 *** - 27 Silwerjack,, BARKLY WEST, 8301 - *Tersius Denton*

165. Shanador Llewellyn Isaacs - 750320 5012 *** - 03 Roodeberg,, TAFELSIG, 7785 - *Safwan*

166. Nicole Astrid Sissing - 841013 0068 *** - 37 Howard Drive,, NORTHPINE, 7560 - *Deborah Nicole Astrid*

167. Albert Henry Fortune - 620908 5235 *** - 8 Atlas Street, Tafelsig, , MITCHELLS PLAIN, 7785 - *Asif*

168. Minnie Irene Magiera - 561101 0035 *** - 269 De Boulevard,, SILVERTON, 0184 - *Minetta-Ramona Carolina*

169. Riaan Richardson - 800512 5172 *** - 32 Betsie Verwoerd Street,, GOODWOOD, 7460 - *Ryaan*

170. Philip Daniel May - 620607 5117 *** - 20 Rosemary Crescent,, ATHLONE, 7764 - *Fareed*

171. Richard Nicholas - 620309 5070 *** - 73 Cornflower Street,, CAPE TOWN, 7785 - *Ridwaan*

172. Lwazi Ayaphila Phekana - 960803 5502 *** - 797 Sihunu Street,, KING WILLIAMSTOWN, 5600 - *Ayaphila*
173. Alyssa Geraldine Dos Ramos - 920821 0078 *** - Unit 63, Honey Badager, , ROODEPOORT, 1724 - *Alyssa Goncalves*

174. Julia Juries - 630416 0174 *** - 17 Danube Street,, EINDHOVEN, 7700 - *Julia Ruth*

175. Bonnie Rodinis - 680511 0038 *** - 30 Alpina Road,, CLAREMONT, 7800 - *Anna Mari Bonnie*

176. Dick Claud Beauzick - 701026 5210 *** - 11 Tonny Crescent, , ,STRANDFONTEIN, 7798 - *Saudick*

177. Devrani Naidoo Naidoo - 621023 0153 *** - 76 Road 747,, MONTFORD, 4092 - *Devarani Subramoney*

178. Giseler Joleen Claasen - 750725 0257 *** - 37 Salmander Square, Kensington, , MAITLAND, 7405 - *Gisla Joleen*
179. Venososhioar Makuwa - 010829 0705 *** - Keerom,, SEHLAKWANE, 1064 - *Innocentia*

180. Andrew De Wee - 850104 5427 *** - 233 Kwena Street,, DANIELSKUIL, 8405 - *Boikhutso Andrew*

181. Mmakgomo Ramafalo - 820520 0443 *** - Mandagshoek,, GA-MPHAHLELE, 0736 - *Mmakoma*

182. Marzel-Fellan Latief - 850714 0068 *** - 3 Fontuin Street, Tafelsig, , MITCHELLS PLAIN, 7785 - *Sakiena*

183. Kgahliso Hope Letsipa - 021126 0100 *** - 4 Bothana , Glen Maris, KEMPTON PARK, 1614 - *Adeah Hope Kgahliso*

184. Moyase Moiana - 950102 0624 *** - 583 Naledi , Extension 2, Jobela Street, SOWETO, 1861 - *Moyase Millicent*

185. Keratile Sigam - 000218 0907 *** - 18780 Lenchman Street, Bloekombos, KRAAIFONTEIN, 7570 - *Keratile Sithandwa*

186. Masibulele Dubeko - 920302 6035 *** - 19 Marred Quarters,, KRUGERSDORP, 1739 - *Kelvin Masibulele*

187. Justin Skhumbuzo Sekaja - 920909 5075 *** - 2409 Gibberfish Street, Skycity , Extension11, ALBERTON, 1449 - *Skhumbuzo*

188. Velaphi Lawrence Mathebula - 900401 5320 *** - 303 Bennya Street, Mngadi Section, , KATLEHONG, 1431 - *Sipho Lawrence*

189. Lutendo Pushie Mafunisa - 820103 0908 *** - 0853 A Rabali, Sokoutenda, , SOKOUTENDA, 0955 - *Lutendo*

190. Nontobeko Manqinana - 600426 0851 *** - No 433 Time Housing,, NGCOBO, 5050 - *Nontobeko Ethel*

191. Varsha Shanil Sewpersad - 850818 0083 *** - 43 Serengeti Sands, Eldoret Street, , SANDTON, 2191 - *Varsha*

192. Leatitia Elizabeth Arnolds - 670906 0486 *** - 78 Lang Street,, GROETESVILLE, 7600 - *Latiefah*

193. Janine Anne Van Der Westhuizen - 820424 0103 *** - 89 3rd Avenue, Belgravia, ATHLONE, 7767 - *Jihaan*

194. Portia Daniels - 810706 0141 *** - 91 Delavey Crescent , Castridge, , MITCHELLS PLAIN, 7785 - *Taibah*

195. Johanna Elizabeth Jacobs - 550513 0068 *** - 17 Koning Street, Greenvlei, , PAARL, 7646 - *Elizabeth*

196. Swartbooi Sobutyu - 040127 0770 *** - 462 Mgabadeli Street,, STELLENBOSCH, 7600 - *Banoyolo Lulutho*

197. Vasudevan Appalsamy - 760404 5070 *** - 27 Swies Street, Terenure, , KEMPTON PARK, 1619 - *Darran*

198. Heila Aletha Elizabeth Nicolin - 620316 0106 *** - 13 Murton Street, Cinderella, , BOKSBURG, 1459 - *Heidi*

199. Benanita Wakefield - 861117 0222 *** - 8 Joan Street,, LOST CITY, 7785 - *Ra-Eezah*

200. Catherine Sarah De Klerk - 590920 0110 *** - 2911 Mopanie Street, Extension 3, Eldorado Park, KLIPTOWN, 1811 - *Kashiefa*

201. Claudine Sandra Fielies - 780213 0046 *** - 57 Alphen Street, Stellendale Village, , KUIS RIVER, 7490 - *Camilla*

202. Padmini Titus - 790925 0229 *** - 106 Warangal Road,, MEREBANK, 4052 - *Padmini Charmain*

203. Monique Abigail Savahl - 801027 0173 *** - 46 Stebenheath Street,, PORT ELIZABETH, 6056 - *Murdiyyah*

204. Mseshi Nbubeko Mkhwanazi - 000729 6146 *** - Unit A A, Imbali, , PIETERMARITZBURG, 3201 - *Mmeli Nqubeko*

205. Swabiso Sandra Maphanga - 900503 0534 *** - D429 Slovo Bapong,, BRITS, 0250 - *Sandra*

206. René Martheze - 800618 0151 *** - 11 Buffelhoek Street,, HEIDEVELD, 7764 - *Raeesah*

207. Kevin Brenton - 660704 5209 *** - 27 Buzzard Road, Rock Lands, , MITCHELLS PLAIN, 7785 - *Kashief*

208. Rochelle Ann Koff - 840313 0250 *** - 17 Diagowal Street,, EAST RIDGE, 7785 - *Ruwayda*

209. Dineo Ekebo Mogale - 991227 5552 *** - 124 Bayleaf Street, Chantelle, , AKASIA, 0182 - *Neo Emmanuel*

210. Deliwe Patricia Kunene - 800207 0510 *** - 05 Boxwood Road,, PRIMROSE, 1401 - *Busisiwe Patricia*

211. Petrous Vusimuzi Sibiya - 040606 5143 *** - 28212 Lebese Street,, MAMELODI EAST, 0122 - *Vusimuzi Petrous*

212. Adam Vries - 810505 6024 *** - 2889 Deben,, KATHU, 8446 - *Manganese Adam*

213. Robetse Mnisi - 040329 0670 *** - 4871 Philnder Street,, EDEN PARK, 1458 - *Keabetse Zendaya*

214. Ryan Gershwin Arendse - 920510 5240 *** - No 6 Cypress Close, Westridge, , MITCHELLS PLAIN, 7785 - *Rafeeq*

215. Lizé Mandelice Jatt - 900905 0127 *** - 17 Bignonia Street,, LENTEGEUR, 7785 - *Asiyaah Hafsa*

216. Madingwane Tumelo Ramoshaba - 980316 5049 *** - 665/38 Sikhona Street, Mahube Valley, , MAMELODI EAST, 0122 - *Melchizedek Tumelo*

217. Nonqubeko Xulu - 950105 0681 *** - 192 Uniden Aparthment, Garden Drive, , MEYERS PARK, 0102 - *Zinzi Nonqubeko*

218. Natasha Kasim - 771118 0193 *** - 62 Neptune Street, Salberau, , ELSIES RIVER, 7490 - *Asiya Nurulhudah*

219. Mhlabunzima Hendrick Miya - 730103 5537 *** - 3910 Ohlanga Street, Extension 9, , GERMISTON, 1401 - *Hendrick Lucy*

220. Dorah Paula Langa - 950917 0538 *** - Stand 01289,, MSOGWABA, 1215 - *Dorah Otilia*

221. Thabani Basi - 920720 5588 *** - `Roland Chapman Road,, MONT CLAIR, 4004 - *Kyle Thabani*

222. Mbonigeni S'khumbuzo Zungu - 951026 5608 *** - C 835 Isihle Drive,, NTUZUMA, 4359 - *S'khumbuzo*

223. Asavela Alfred Sitole - 880914 6012 *** - Misty Mount Location, Corana Area, , LIBODE, 5160 - *Asavela Asa*

224. Bradley Jefferey Witbooi - 801009 5044 *** - K-12 Drommedaris , Rugby, , MILNERTON, 7441 - *Ibrahim*

225. Paulie Maria ```Davids - 540328 0114 *** - 10 Besembos Street, Colridge, , FRYBURG, 8601 - *Pauline Maria*

226. Linda Kathrine Seller - 460705 0243 *** - 6 Hyacinth Crescent, 6, , MITCHELLS PLAIN, 7785 - *Lameez*

227. Karliff Kaseeff Wilson - 800110 5123 *** - 6 Heldersberg,, JOHANNESBURG, 2091 - *Kalev Karliff Gavriel*

228. Masiele Merriam Vos - 840728 0684 *** - 106 Shamkari Complex, Rooigras Avenue, Bassonia, JOHANNESBURG, 2062 - *Miriam Celka Masele*

229. Tlhatlogo Disang - 910509 0986 *** - 22 Hoep Hoep Street, Newtown, , POSTMASBURG, 8420 - *Tlhatlogo Mamello*

230. Mamakole Doctor Sehlola - 760226 5410 *** - 1503 Rockdale,, MIDDELBURG, 1050 - *Lekutumishe Doctor*

231. Nhlanhla Menace Mathye - 920607 1066 *** - 34196 Hull Street,, KIMBERLEY, 8301 - *Nhlanhla Hope*

232. Milan Andreas Jensen Haricharan - 001121 5235 *** - 30 Ravens Berg Area,, CAPE TOWN, 7700 - *Milena Amara Jensen*

233. Dugmore Thembile Qunta - 770224 5445 *** - Kno 5 Kleinbegin Vn Riebeek Roade, Kuils River, , CAPE TOWN, 7000 - *Thembile Dugmore*

234. Lizalise Chapa - 940726 0787 *** - 3148 Gubanxa, , DOBSONVILLE, 5090 - *Lizalisekile*

235. Bennette Lesetja Ramoloto - 930525 5687 *** - 4216 Shark Street, Extension 5, Diepsloot, JOHANNESBURG, 2189 - *Isaiah Masebane*

236. Ncamisile Nomusa Zulu - 010405 5409 *** - Kwanqetho Reserve,, PINETOWN, 3610 - *Lindani*

237. Jahakhulu Abel Maseko - 820307 5759 *** - 194 C Vulindlela Street,, WITBANK, 1035 - *Jahakhulu Sipho*

238. Godfrey Sechele - 730203 6411 *** - 3049 Uextension,, MABOPANE, 0190 - *Somrube Godfrey*

239. Athenele Kobo - 001014 5224 *** - Khulile Location,, MIDDLEDRIFT, 5685 - *Athanele*

240. Boenetsi Precious Mohlala - 880608 0624 *** - 238 Strandfontein Road, Pericarp Park, , CAPE TOWN, 7941 - *Mathau Precious*

241. Cameron Cupido - 940728 5356 *** - 43 Waterlily, Dlenteguer, , MITCHELLS PLAIN, 7785 - *Tasleem*

242. Tshovhewaho Munonde - 990514 0204 *** - Stand No 144, Madombidzha, , SINTHUMULE, 0921 - *Tshovhewaho Mpho Linda*

243. Siphelele Nkosinathi Dlamini - 790524 5783 *** - Ophalule Area,, NONGOMA, 3950 - *Sphelele Nkosinathi*

244. Zongeziwe Rhobho - 900925 1191 *** - E644 Mothutlong, Exension 2, Makau, BRITS, 0250 - *Salusiwe Zongeziwe*

245. Wilson Nyeku Chauke - 900616 5190 *** - 2018 Extension 2, Block B, , LETLHABILE, 0264 - *Ismail Nyiko*

246. Leeyengka Renown Brauns - 930505 0115 *** - 29 Robert Avenue, Promosa, , POTCHEFSTROOM, 2531 - *Zianca Gillian*
247. Neville Kahn - 591226 5233 *** - 25 Prunus Street,, BONTEHEUWEL, 7760 - *Nadier*

248. Noor Neil Du Ploy - 760910 5125 *** - 106 Patrys Road, Eastwood, , PIETERMARITZBURG, 3201 - *Neil Clinton*

249. Selby Ditlakala Mphahlele - 981204 5087 *** - 2329 Zone A,, LEBOWAKGOMO, 0737 - *Mangwana Selby*

250. Jantjie Morake - 930325 5652 *** - 1001 W Section,, BOTSHABELO, 9781 - *Tefo Jantjie*

251. Mampalami Augustina Bulane - 740828 1264 *** - 2013 N Section,, BOTSHABELO, 9781 - *Nonky*

252. Promise Chabalala - 890318 0303 *** - 371 Block X X Ushwaqa Street, Ushwaqa Street, , SOSHANGUVE, 0152 - *Miyelani Promise*

253. Apha Radebe - 830806 5602 *** - 11701 Extension 7 A,, ORANGE FARM, 1805 - *Abner Zabunda*

254. Sibabalo Joshua Qoqonga - 011030 5045 *** - 89 Grayston Drive,, MORNINGSIDE, 2196 - *Andrea Joshua Sibabalo*

255. Regina Phakathi - 951207 0178 *** - 1third Street,, SPRINGS, 1559 - *Kelly Regina*

256. Mpiyakhe Samson Tshabalala - 920813 5904 *** - Extension 6087, Sakhile, , STANDERTON, 2430 - *Mshengu Sammy*

257. Moses Volo - 950425 5624 *** - 24 Dibobo Street, Deift, , LEIDEN, 7100 - *Mcebisi Moses*

258. Jullie Hanna Maureen Faro - 840229 0167 *** - 41 Castletown Road, Wynberg, , CAPE TOWN, 7800 - *Zayaan Hannah*

259. Willem Williams - 681006 5140 *** - 3 Dora Street, High Places, , EERSTERIVER, 7100 - *Wayne Franklin*

260. Colimear Vukani Mahlaba - 801218 5486 *** - 3022 B Zone 10, Meadowlands, , SOWETO, 1852 - *Vukani Mandla*
261. Nokulunga Irene Mhlungu - 810201 0971 *** - 554 Xaba Street,, DUNDEE, 3000 - *Nokulunga Lungile*

262. Jamie Lee Abrahams - 940224 0404 *** - 33 Oude Skip Road,, HOUTBAY, 7806 - *Raeesa*

263. Linda Esperenc,A Joao - 000525 0789 *** - 38722 Dade Street, Harare, , KHAYELITSHA, 7784 - *Linda*

264. Bernino Ward - 940821 5111 *** - 2 Elsa Court,, HEIDEVELD, 7750 - *Adi*

265. Monique Hendricks - 000116 0168 *** - 26 Tees Road,, MANENBERG, 7764 - *Isra*

266. Rodna Mudzielwana - 960225 0828 *** - 13931 Braamfsicher , Phase 2, , ROODEPOORT, 1724 - *Rodna Makhadzi*

267. Dumisani John Ndwandwe - 910412 5068 *** - 8743 Thobejane Street,, DOBSONVILLE, 1863 - *Sandile Dumisani*

268. Amasindi Marubini - 040519 0407 *** - No 2 Michael Dames Street, Lewisham, KRUGERSDORP, 1739 - *Masindi Cindy*

269. Kamogelo Phokela - 040605 5120 *** - 5794 ;Extension 7, Amotola Street, , DIEPSLOOT, 2189 - *Kamogelo Kwena*

270. Fortunate Sabrinah Khoza - 810321 0502 *** - 96 Feereia Street, Unit 12, , NELSPRUIT, 1200 - *Fortunate Tsakani*

271. Emiel Peter Jontin Wagner - 000824 5132 *** - 60 Fullham, , MITCHELLS PLAIN, 7785 - *Mujahid*

272. Sewela Rhouner Mabitsela - 880613 0798 *** - 434 Amazulu Street, Mohlakeng, , RANDFONTEIN, 1759 - *Rhouner*

273. Neo Rabothata - 000515 0495 *** - 7681/285 Phomolong , Extension 8, , MODIMOLLE, 0510 - *Phoebe*

274. Kebogile Sinah Lephadi - 010322 0224 *** - 2 Main Reef Road, Fontain Plaza, , RANDFONTEIN, 1759 - *Kelebogile Sinah*

275. Deidre Elizabeth Mokoena - 010321 0232 *** - 15320 Thomas Lethake Crescent, Mohlankeng, , RANDFONTEIN, 1759 - *Lesego Elizabeth*
276. Avinah Ramdhany Jivan - 931217 5126 *** - 15 Judith Road, Emmarentia, , RANDBURG, 2195 - *Avi*

277. Princess Mkane - 000517 0777 *** - D153 Samela Drive, Unit 13, Imbali, PIETERMARITZBURG, 3200 - *Lungile Princess*

278. Melissa Rolene Kapp - 990701 0082 *** - 245 Main Avenue, Ferndale, , RANDBURG, 2194 - *Jack Melissa Rolene*

279. Fezeka Khumalo - 010614 0376 *** - 4008 New Zealand Street, Extension 4, , COSMO CITY, 9188 - *Kudzai Mpofu*

280. Sarah Fatima Makungwa - 970723 0233 *** - 28 A Street , Pageview, , JOHANNESBURG, 2092 - *Sarah-Lee Fatima*
281. Khumi Gino Motlhahledi - 020126 0142 *** - 39 Southernwood Road,, NITGEDACHT, 1739 - *Bracha*

282. Christa Bianca Robson - 911004 0026 *** - 820 Meerlast Road, Equestria, PRETORIA, 0184 - *Amira*

283. Mbekezeli Somi - 990828 5720 *** - 09 Masekela Street,, SPRINGS, 1575 - *Mbekezeli Austin*

284. Thandeka Portia Dube - 961104 0891 *** - Emfundweni , Ward 1106140, , DAANHAUSER, 3080 - *Thandeka Portia Dimakatso*

285. Ngcebo Cormfart Duma - 920316 5762 *** - 236 The Onyx, 254 Fox Street, City And Suburban , JOHANNESBURG, 2000 - *Ngcebo*
286. Sharon Scheepers - 910204 5157 *** - Verling Farm,, CRADOCK, 5880 - *Charles*

287. Michyla Ann Fisher - 950812 0182 *** - 23 Colwyn Road, Silvertown, , ATHLONE, 7764 - *Iqrah*

288. Lindo Matshiane - 000125 0618 *** - 439 Doornkop,, MIDDELBURG, 1050 - *Lindokuhle*

289. Kenneth Matsimela - 860914 5587 *** - 38027 Monageng Avenue,, MAMELODI EAST, 0122 - *Kenneth Sefanye*

290. Mmangokwane Emma Matsimela - 990710 0316 *** - 38027 Monageng Avenue,, MAMELODI EAST, 0122 - *Mashadi Lydia*

291. Seun Matsimela - 920808 5599 *** - 38027 Monageng Avenue,, MAMELODI EAST, 0122 - *Magodangwane Bethuel*

292. Nomfundo Promise Hlengwa - 030127 1145 *** - 180214 Nagle Dam Road, CAMPERDOWN, 3720 - *Sthabile Promise*

293. Philisiwe Thembeka Shabalala - 990818 0548 *** - 7680 – Extension 10, Tsutsumani, ALEXANDRA, 2090 - *Philisiwe Nomonde*

294. Thono Masemola - 000721 0181 *** - Ga-Masemola Village, PSHIRING, 1060 - *Thono Pertunia*

295. Masungulo Mtileni - 990601 5452 *** - 44516 Diepsloot, Extension 12, DIEPSLOOT, 2189 - *Masungulo Theo*

296. Siyabonga Sizwe Magwenyane - 861015 5617 *** - 1399 Padi Street, Katlehong, JOHANNESBURG, 1401 - *Siyabonga Godfrey*

297. Thandie Aleta Mochoeni - 430628 0385 *** - 11629 Ivory Park, TEMBISA, 1632 - *Thandi Polinah*

298. Thabo Archie Moloya - 811013 5347 *** - 1449 Du Plessis Street, ALBERTON, 1449 - *Thabo Lesibana*

299. Shaun Yandisa Gili - 860911 5904 *** - 1038 Rover Road, Constantia Park, PRETORIA, 0181 - *Yandisa*

300. Zergio Dayle Diergaardt – 931105 5192 *** - Hoofweg 3639, PORT NOLLOTH, 8280 - *Zergio Dayle Diergaardt*
301. Shane Moela - 921207 5687 *** - Tjibeng Village, ATOK, 0749 - *Shane Ramatladi*

302. Tlaleng Tumisho Mampholo - 900731 5668 *** - 10057 Kgadile Street, GAMAMPANA, 0467 - *Morwape Tumisho*
303. Jason Van Der Merwe - 891225 5077 *** - Plot 61 Elandsvlei, Groot Elandsvlei, RANDFONTEIN, 1759 - *Jason Jan*
304. Martin Moleele - 850520 5922 *** - 95-20 Avenue, ALEXANDRA, 2090 - *Martin Mogomotsi*

305. Caroline Moleke - 921206 0123 *** - 105 Middle Street, Brentwood Park, KEMPTON PARK, 1501 - *Mmatsie Nthabeleng Caroline*
306. Botlenyana Ursula Makateng - 941003 0228 *** - 323 Leboeng Section, TEMBISA, 1632 - *Bontle*

307. Masipa Edward Mothemane - 830210 5895 *** - 1555 Winnie Mandela, Zone 10, TEMBISA, 1632 - *Pushetji Masipa*
308. Lesiba Michael Aphane - 660309 5338 *** - Seruleng Village, GOMPIES, 0631 - *Sekhocho Michael*

309. Joan Lee Naidoo – 911015 0094 *** - 119 St Aidan,Barbeque Downs,,,MIDRAND, 1684 - *Jo*

DEPARTMENT OF HOME AFFAIRS

NO. 2670 **21 October 2022**

ALTERATION OF SURNAMES IN TERMS OF SECTION 26 OF THE BIRTHS AND DEATHS REGISTRATION ACT, 1992 (ACT NO. 51 OF 1992)

The Director-General has authorized the following persons to assume the surnames printed in *italics*:

1. Sibusiso Nkanyiso Ntokozo Donga Tshabalala - 030131 5419 *** - A 95 Section, Ntenesha Street, EZAKHENI, 3381 - *Mabaso*
2. Noxolo Moeketsi - 980609 0362 *** - 94 Rabolou Street, Kwa Thema, SPRINGS, 1575 - *Xala*
3. Aizek Mfaniseni Sithole - 611203 5543 *** - Mpembeni Area, HLABISA, 3937 - *Bhengu*
4. David Mandenga Skosana - 770417 5469 *** - 364 Dube Street, THOKOZA, 1426 - *Mthembu*
5. Thando Mokgosi - 000816 5257 *** - 345 Sibisi Street, KATLEHONG, 1431 - *Dlamini*
6. Masechaba Antletse Lesedi Ramokgadi - 011128 0256 *** - 4865 Meagong Drive, KAGISO, 1754 - *Segatlhe*
7. Semakaleng Vanissa Makhobela - 970929 0664 *** - No 1631 Block E, MADIDI, 0192 - *Ramputla*
8. Siphiwe Joseph Mentoor - 860101 5566 *** - 12421 Mobaki Crescent, Mohlakeng, RANDFONTEINR, 1759 - *Dlamini*
9. Trizer Nomasonto Skhosana - 980925 0921 *** - Stand No 294, Skirilek, Pienaarsport, MAMELODI, 0122 - *Sithole*
10. Matlakala Suprise Mabulana - 841106 5710 *** - 6380 Extention 9, ALEXANDRA, 2090 - *Masilo*
11. Sithembumusa Nonkululeko Kunene - 940325 0443 *** - House No H1838, H2 Uhlunguhlungu Street, EMPANGENI, 3887 - *Mgenge*
12. Siza Lionell Shezi - 910916 6046 *** - 6151 Danganya Area, UMKOMAAS, 4170 - *Mthuli*
13. Kotla Lebogang Andries Maredi - 900206 5985 *** - 502 Unit D, MANKWENG, 0727 - *Seabela*
14. Thabo Abednico Mohlala - 900101 5468 *** - 1653 Duduza Squater Kamp, MASHISHING, 1123 - *Thankga*
15. Keobakile George Mpofu - 720808 6395 *** - 10188 Dikhuting, TAUNG, 8380 - *Chabagae*
16. Aluwani Curthwell Maeba - 971125 5917 *** - Mbilwi Area, THOHOYANDOU, 0950 - *Mphaphuli*
17. Mashidikane Stephen Tau - 870926 5837 *** - Schoonoord Area, JANE FURSE, 1085 - *Maepa*
18. Sandiso Jokhoniyas Sodella - 830503 5331 *** - Hopell Location, THORNVILLE, 3760 - *Madiba*
19. Teboho Matthews Nkoane - 790608 5478 *** - 2693 Anton Lembede Street, Tikwana, HOOPSTAD, 9479 - *Ntomane*
20. Nomfundo Noxolo Mthimkhulu - 940829 0442 *** - 2663 Welbedatch East, CHATSWORTH, 4092 - *Zwane*
21. Lethinhlanhla Vuyo Sabela - 020527 5747 *** - No 6896 Osizweni, OSIZWENI, 2952 - *Mkhize*
22. Banele Warren Nxumalo - 030311 5571 *** - Nyandezulu Location, PORT SHEPSTONE, 4240 - *Hlophe*
23. Jan Tsholofelo Maimela - 850409 5316 *** - No 893 Phase 6, Itsoseng, MABOPANE, 0190 - *Monama*
24. Michael Selepe - 850104 5817 *** - Zicole Area, NQUTU, 3135 - *Mosea*
25. Nthabiseng Mitchell Nkashe - 010617 0880 *** - 59 Napoleon Street, RUSTENBURG, 0300 - *Lesejane*
26. Linda Hopewell Shangase - 760620 5718 *** - Thafamasi Area, NDWEDWE, 4342 - *Mdima*
27. Anele Mahlangu - 000914 0252 *** - 6 Katjiepiering, Jan Hofmeyer, Vrededorp, JOHANNESBURG, 2092 - *Madisa*
28. Koketso Grace Matibidi - 971002 0958 *** - Stand No Zic 03, Tafelkop, GA-KOPA, 0874 - *Moledi*

29. Bongani Steven Dlamini - 740805 6054 *** - 2135 Craig Avenue, Dube, SOWETO, 1800 - *Radebe*

30. Lesly Tebele - 990319 5462 *** - 66 Zone C, MAJEJE, 1220 - *Ndlovu*
31. Bhekisizwe Mnikathi - 980703 5432 *** - Emandabeni Area, ESCOURT, 3310 - *Mabaso*

32. Mduduzi Gladman Mabuza - 830627 5547 *** - 10104amokhele Street, Mzimhlophe, SOWETO, 1804 - *Magubane*

33. Orefile Refeletse Raphael Hlengwa - 901216 5217 *** - 15 Singati Sands, 46 Naivasha Road, Sunninghill, JOHANNESBURG, 2157 - *Moerane*
34. Howard Pontsho Chauke - 990414 5265 *** - 366 Block Uu, SOSHANGUVE, 0152 - *Mokone*

35. Tshepo Alfred Seatlhodi - 790103 5912 *** - House No 64, Bothitong Village, KURUMAN, 8460 - *Morebatho*

36. Ditshego Daniel Sithole - 911223 5194 *** - 21222 Extention 7, SOSHANGUVE, 0152 - *Kabine*

37. Zandile Ngwevu - 980120 0496 *** - 24686 Zone 1, Diepkloof, Ebern Cuyler Drive, SOWETO, 1864 - *Hlaisi*

38. Solomon Siyabonga Mauwane - 970220 5483 *** - 3811/35 Tegniek Road, DEVLAND, 1811 - *Magazi*

39. Olebogeng Cornelius Dinkwe - 910411 5544 *** - 305 Modimong, TAUNG, 8584 - *Phekonyane*

40. Lerato Mongake - 960316 0190 *** - 188 Ingungumbane Road, MPOPHOMENI, 3291 - *Khumalo*

41. Wonderboy Nkosingphile Ndlela - 880904 5326 *** - Willowfountain Village, PIETERMARITZBURG, 3201 - *Langa*

42. Pontsho Balesema Phiri - 960818 0180 *** - 825 Sedumedi Street, Zone 1, GA-RANKUWA, 0208 - *Nthatha*

43. Peter Lesiba Mokau - 920126 5570 *** - 929 Sytze Wierda Avenue, Philip Nel Park, PRETORIA WEST, 0182 - *Mosehla*

44. Tshepiso Promise Maleka - 900622 0927 *** - Shushumela-Praktiseer Area, BURGERSFORT, 1150 - *Moropane*

45. Sphiwe Sipho Msiza - 860509 5529 *** - Stand No 300, Luckau, GROBLERSDAL, 0478 - *Nkadimeng*

46. Nyeleti Kutlwano Senabe - 000323 0240 *** - 38 Cadenet, Avundo Estate, ROOIHUISKRAAL, 0157 - *Kutumela*

47. Doctor Mahlangu - 891109 5671 *** - 8023 Kgauta Street, Extension 7, Nellmapius, PRETORIA, 0162 - *Masemola*

48. Vuyisile Robert Ngoma - 930528 5321 *** - 29159 Rame Tsi Street, Extension 5, MAMELODI EAST, 0122 - *Mongo*

49. Rolihlahla Wiseman Mshweshwe - 940121 5333 *** - 21078 Mabiletsa Street, TSAKANE, 1550 - *Mashaba*

50. Tiny Zubane - 770626 0696 *** - 23 Tshitsidi Street, Saulsville, PRETORIA, 0125 - *Hadebe*

51. Sihle Doctor Hlengwa - 871212 5656 *** - 100237 Mkhize Street, Kwanyuswa Manaoba Road, BOTHAS HILL, 3660 - *Mkhulise*

52. Bongiwe Ofentse Seboko - 911119 0462 *** - 250 Matheatsie Street, Rockville, MOROKA NORTH, 1818 - *Kubheka*

53. Lucky Nhlanhla Khathi - 010402 5870 *** - Kwamnamatha Thokozoroad, BOTHAS HILL, 3660 - *Mthethwa*

54. Nomzamo Joyce Ngubo - 880708 0424 *** - 105 Kwapata Unit30, Edendale, PIETERMARITZBURG, 3216 - *Xaba*

55. Kuata Moses Mphela - 5508 *** - 817 Monsection, KGOMOKGOMO, 0444 - *Nkadimeng*

56. Giliki Silvia Molokela - 850309 0318 *** - 293madebesi Street, OTTOSDAL, 2610 - *Mothupi*

57. Sive Donyeli - 000629 5765 *** - 6057 Extension 6, GRAHAMSTOWN, 6139 - *Singata*

58. Sello Jasper Mbiza - 891021 5740 *** - 22508 Ext 7, SOSHANGUVE, 0152 - *Masemeni*

59. Celiwe Jessica Mthimunye - 960214 0503 *** - Bhethany Area, BERGVILLE, 3350 - *Ngwenya*

60. Bafana Joseph Mahlangu - 790325 5249 *** - 32204 Hlanganani, TSAKANE, 1550 - *Kgapola*

61. Bontle Sedisho - 890621 0767 *** - 12011 Melorane, Dithakong, KURUMAN, 8460 - *Mabogola*

62. Moyahabo Anthony Sepaila - 010117 5663 **** - Simpson Area, RADITSHABA, 0718 - *Mpe*

63. Kedibone Maureen Semadi - 891201 0286 *** - 457 Block X, SOSHANGUVE, 0152 - *Domingo*

64. Tumi Give Mokwana - 951104 5642 *** - 61666 Sebokeng , Zone 17, SEBOKENG, 1983 - *Ntuli*
65. Lehlohonolo Molefe - 950307 5998 *** - 12291 Mokwapane, DAVEYTON, 1520 - *Ntshabelle*
66. Tsiamo Mathoto Tladi - 041013 0320 *** - 33061 N Mokhetle Street, MAMELODI EAST, 0122 - *Phiri*
67. Moses Motubatse Phaahla - 880830 5883 *** - Byldrift Area, GASELOANE, 0737 - *Matlala*
68. Tshepiso Phillip Magwaza - 021012 5614 *** - 1280 Section 5 , LEFATLHENG, 0418 - *Mello*
69. Thando Presley Mashiane - 901224 5373 *** - 628 Tau Street, DIEPKLOOF, 1862 - *Mtshiswe*
70. Helen Tshegofatso Matuwe - 951203 0535 *** - 2622 Sethuthune Street, Mapetla Ext, Chiawelo, SOWETO, 1818 - *Pule*
71. Warrent Ropheng Tshabalala - 930419 5492 *** - House No 050239, Matopa Village, MAPELA, 0610 - *Langa*
72. Nokubonga Nonhlanhla Jama - 040317 0482 *** - 0997 62akhiweni Road , Ntshongweni, HAMMERSDALE, 3700 - *Memela*
73. Botshelo Patronella Mothupi - 040113 1275 *** - 4476 Masilo Location, THENISSEN, 9410 - *Liphoko*
74. Princess Sibongile Monyai - 970702 0990 *** - Riverside View Ext, Extension 33 , Yellowwood Street, FOURWAYS, 2191 - *Tshalibe*
75. Lekuntu Kakudi - 810105 5613 *** - 3252 Mzimaye Street, Extension 4 , LANGAVILLE, 1490 - *Hlutyana*
76. Osato Hanwmeni Langelihle Igiehon - 040630 0690 *** - Hlabathi Area, TABANKULU, 5130 - *Ngceke*
77. Meranda Natashia Maphosa - 971127 0645 *** - Stand No 2036, Clau-Clau Trust, KABOKWENI, 1240 - *Nyathikazi*
78. Lebogang Precious Majaja - 930121 0889 *** - 10004 Raborifi, TLHATLHAGANYANE, 0336 - *Masilela*
79. Vusumzi Ngema - 980827 5154 *** - Macekane Reserve, EMPANGENI, 3880 - *Mthembu*
80. Patrick Tsietsi Ntlangoe - 860601 5602 *** - 7810 Zone 8, FICKSBURG, 9730 - *Lemako*
81. Thobile Sinethemba Ndlovu - 020504 0257 *** - 153 Adelaide Tambo Drive, DURBAN NORTH, 4051 - *Makhanya*
82. Patience Stona - 021009 0540 *** - 5338 Mandela Drive, POTCHEFSTROOM, 2531 - *Zizi*
83. Sibongakonke Magobolo - 020315 6360 *** - Pholile Location, MATATIELE, 4730 - *Letsela*
84. Andani Winston Siphoro - 030801 5946 *** - Tshedza No G02, VHULAUDZI, 0926 - *Mukosi*
85. Tshegofatso Leope - 030920 5986 *** - 882 Wilhelm Street, Claremont, PRETORIA, 0082 - *Kgophane*
86. Tendani Ramabulana - 000920 6300 *** - Tshixwadza Village, MUTALE, 0975 - *Phasoane*
87. Kgatudi Jack Molokomme - 740228 5564 *** - 2721 Botswana Crescent, Cosmo City, RANDBURG, 0957 - *Ramolusane*
88. Lesego Keneth Dichabe - 821109 5814 *** - Picong Village, TAUNG, 8584 - *Mokhuane*
89. Mthobisi Dube - 951210 6184 *** - Stand No 5112, Extension 11, BARBERTON, 1300 - *Mazibuko*
90. Thabang Nkosi - 881014 5553 *** - 9208 Extension 2, SOSHANGUVE SOUTH, 0152 - *Mathonsi*
91. Gift Teboho Khoza - 990112 5286 *** - 1206 Lakeside Proper, EVATON, 1984 - *Senkge*
92. Bonolo Virginia Mpayeng - 030330 0355 *** - 4064 Extension 2, WINTERVELDT, 0195 - *Mashaba*
93. Nkosingithandile Vilane - 031021 0906 *** - Mobundeni Area, HLABISA, 3937 - *Myeni*
94. Mhleli Sidinile - 760801 5918 *** - Manzana Area, NGCOBO, 5080 - *Kula*
95. Welcome Sizwe Ndlovu - 970308 5439 *** - Nondweni Area, NQUTU, 3135 - *Buthelezi*
96. Henricho Vuyani Cebisa - 891122 5396 *** - Madakane Location, MURCHISON, 4250 - *Mdingi*

97. Lucky Mduduzi Msimango - 790906 5443 *** - 17 Range Road, Oslo Beach, PORT SHEPSTONE, 4240 - *Mbhele*
98. Rammelegi Illon Mtshweni - 000801 5694 *** - 2605 Extension 1, KANANA, 0152 - *Masote*
99. Morobi Morris Manaka - 910129 5747 *** - 2362 Malefo Street, NALEDI, 1868 - *Boya*
100. Kabelo Phillemon Teffu - 920116 5538 *** - 985 Skaatspond Avenue, Strubens Valley, CLEARNATER, 7724 - *Lephallo*
101. Ntokozo Tshabalala - 010413 5124 *** - 1488a Mashiyane Street, ZOLA NORTH, 1868 - *Zibula*
102. Khomotso Morris Mashianoke - 850521 5435 *** - 10937 Extension 8, Mhluzi, MIDDELBURG, 1053 - *Mafiri*
103. Shadow Bongani Mabena - 920807 5441 *** - 9201 Extension 6, Mhluzi, MIDDELBURG, 1055 - *Nthoke*
104. Tumelo Jim Monare - 931207 5572 *** - 741 Daloyi Street, MODIMOLLE, 0510 - *Mothemane*
105. Klaas Ramokgoma Moreroa - 920126 5450 *** - 7681/53 Extension 08, PHOMOLONG, 0510 - *Tapala*
106. Ntsikelelo Roji - 040618 6050 *** - Ngxakaxa Area, DUTYWA, 5000 - *Mfiki*
107. Mamose Moniccah Mooka - 970930 0574 *** - 635 -103rd Street, Zone 4, SESHEGO, 0742 - *Masemola*
108. Masontaha Maria Tsakatsi - 980719 1013 *** - House No 45, Marakong, WITSIESHOEK, 9870 - *Moloi*
109. Mbuso Fortunatus Langa - 890809 5622 *** - 31 Mmadinare Street, Extension 28, Phase 6A, VOSLOORUS, 1475 - *Mchunu*
110. Itumeleng Tlelase - 921011 5945 *** - 20329 Zone 14, SEBOKENG, 1983 - *Mahlasi*
111. Nomsa Palesa Tangala - 841106 0979 *** - 6882 Chatry Street, Ikageng Location, POTCHEFSTROOM, 2530 - *Adonis*
112. Caroline Tshidi Nsibande - 711207 0450 *** - 341 Phooko Section, KATLEHONG, 1431 - *Monise*
113. Hapiness Sepathi Mbethe - 920630 0845 *** - 30251 Matshiding Location, MDUTJANA, 0472 - *Maseko*
114. Ian Ayanda Cele - 900228 5968 *** - Amandawe Mission, Msani Road, Ward 17, SCOTTBURGH, 4180 - *Nkomo*
115. Lindelani Phophi Ngomane - 000627 0569 *** - 205 Meintjieskop, 505 Edmund Street, ARCADIA, 0085 - *Rasengani*
116. Siphiwe Augustine Mathetha - 980901 5513 *** - 5947 Mzinto Street, Extension 8, TSAKANE, 1550 - *Molefe*
117. Lufuno Mleya - 980601 0263 *** - 4950 Umceza Street, Extension 4, Protea Glen, SOWETO, 1819 - *Muleya*
118. Yasheen Abdullah - 821126 5064 *** - 27-16th Avenue, Factreton, KENSINGTON, 7405 - *Scheepers*
119. Doctor Petrus Sithole - 530415 5286 *** - 5154 Majaneng, TEMBA, 0407 - *Baloyi*
120. Mulalo Makwarela - 950126 6058 *** - 6805 Hashi Crescent, 1726 Westview Security Estate , Andeon, PRETORIA WEST, 0182 - *Nevhutalu*
121. Thabiso Tshegofatso Ndala - 020425 5673 *** - 4142 Phase 4, ITSOSENG, 0190 - *Mangokoane*
122. Matsobane Stanley Moselakgomo - 821104 5290 *** - 6060 Gonea Street, Nellmapius, PRETORIA, 0122 - *Galane*
123. Itumeleng Baloyi - 841205 5290 *** - 7036 Tumeric Street, LOTUS GARDENS, 0008 - *Moloto*
124. Onamile Robert Sehlangu - 780805 6227 *** - 165a Gatsejane Village, HEUNINGVLEI, 8611 - *Phele*
125. Tumisang Glen Ndwambi - 941224 5691 *** - 176 Block Aa, SOSHANGUVE, 0152 - *Molefe*
126. Segodi Carl Malekutu - 930620 5860 *** - House No 2190, Manningburg Extension, GA-KGAPANE, 0838 - *Maboko*
127. Tseke Patrick Moyaba - 921114 5865 *** - Manganeng Village, SEKHUKHUNE, 1124 - *Nkadimeng*
128. Maphile Justine Mothoko - 920927 5779 *** - Ga-Mashegoana Village, SEKHUKHUNE, 1124 - *Mashegoana*
129. Moagi Tlou - 900306 5395 *** - 214 Bashee Street, Munsieville, KRUGERSDORP, 1739 - *Segone*
130. Happy Pitja - 021225 6365 *** - B2 Bela Bela, GA-TISANE, 1064 - *Mampana*

131. Melusi Chwepheshe Ndlovu - 950920 6618 *** - Dondotha Area, EMPANGENI, 3880 - *Sikhosana*

132. Mbali Siyanda Mtetwa - 040709 1252 *** - 10328 Leslie Street, KWA-THEMA, 1575 - *Dladla*

133. Norman Sello Ntsundukazi - 040611 5299 *** - 291 Umnonjaneni, TEMBISA, 1632 - *Matseke*

134. Abonga Mazwana - 040413 5599 *** - Mngcwe Area, Mbunqwini Location, NQAMAKWE, 4990 - *Zembetha*

135. Olebile James Mokolojwane - 830905 5517 *** - 1700 Extension 11, Sunrise Park, RUSTENBURG, 0308 - *Mokgatlhe*

136. Nthabiseng Muhlanga - 040807 0645 *** - P O Box 299, BUSHBUCKRIDGE, 1280 - *Mgiba*

137. Nthabi Muhlanga - 040807 0646 *** - P O Box 299, BUSHBUCKRIDGE, 1280 - *Mgiba*

138. Paulus Pogisho Benson - 930505 5222 *** - 1736 Zone A, WARRENTON, 8530 - *Keseokile*

139. Hlompho David Mokwena - 930530 5062 *** - 225 Ntha Location, LINDLEY, 9630 - *Radebe*

140. Lucy Mphuthi - 871017 0255 *** - 4050 Lerotho Street, Zone 4, Pimville, SOWETO, 1809 - *Tshabalala*

141. Glen Pitso Chiloane - 760817 5211 *** - 718 Block Ux, MABOPANE, 0190 - *Mathibedi*

142. Shashi Andrew Dolo - 760814 5422 *** - 6a Makriel Street, Elephants View, WATERFALL WEST, 0300 - *Mothapo-Mathole*

143. Sanele Sicelo Tshabalala - 951201 5321 *** - 324 Monomane Crescent, Extension 5, VOSLOORUS, 1475 - *Magwaza*

144. Harry Mosotho Manganye - 831027 5581 *** - 4600 Block B, MABOPANE, 0190 - *Chiloane*

145. Innocent Sfiso Tshikosi - 030409 5506 *** - 64 Kgama Street, Extension 2, KLIPSPRUIT, 1809 - *Mtolo*

146. Bhuti Desember Mokgabudi - 871225 5313 *** - 17047 Extension 17, EMBALENHLE, 2285 - *Hlatshwayo*

147. Nkosana Richard Sebole - 870905 6153 *** - 17 On 4 Clinton, New Redzuth, ALBERTON, 1449 - *Mashinini*

148. Jimmy Homolemo Makena - 010621 6101 *** - 14136 Modubatse Street, MAMELODI EAST, 0122 - *Mamabolo*

149. Phakamile Judith Maphumulo - 930622 0671 *** - House No Q94 , SHAKASKRAAL, 4450 - *Zondi*

150. Takalane Prince Matuludi - 040406 6200 *** - 36757 Extension 22, MAMELODI EAST, 0122 - *Mudau*

151. Zenzele Iseac Myeza - 830503 5657 *** - Kwakhoza Area, ESHOWE, 3815 - *Cele*

152. Koketjo Humphrey Maidi - 940501 5804 *** - 291 Tokologo, MHLUZI, 1050 - *Matlala*

153. Tshepo Karabo Phoko - 000307 5264 *** - 612 Herdershof Flats, Gold Street, Sophiatown, JOHANNESBURG, 2092 - *Mokoena*

154. Andrew Phela - 900416 5639 *** - 14999 Extension 9, ORANGE FARM, 1841 - *Maduna*

155. Thabang Thomas Mdlali - 970519 5411 *** - 1259 Polokong, SEBOKENG, 1983 - *Sediane*

156. Thato Mdlali - 911002 5405 *** - 1259 Polokong, SEBOKENG, 1983 - *Sediane*

157. William Mhlabane - 970302 5923 *** - Stand No 229, BUFFELSSPRUIT, 1331 - *Standers*

158. Dewald Landman - 930201 5035 *** - 6 Wood Road, Highgate , EAST LONDON, 5200 - *Luck*

159. Sphesihle Ndumiso Zayne Mkhaliphi - 030502 5272 *** - 21764-33 Nombhela Drive, Vosloorus, BOKSBURG, 2940 - *Khumalo*

160. Nonjabulo Snothile Shobede - 030923 1365 *** - Nyamuzane Area, MAPHUMULO, 4470 - *Ndimande*

161. Mpho Knowledge Moloi - 970514 5263 *** - 71 Bouqet Street, Rosettenville, JOHANNESBURG, 2401 - *Mosia*

162. Themba Welcome Sfiso Mavundla - 881128 5990 *** - 32 Lombard Street, Extension 16, Klipfontein, WITBANK, 1035 - *Mbatha*

163. Tshukudu Alfred Serumula - 980517 5765 *** - 10134 Taueatswala, REBONE, 0617 - *Maliti*

164. Daisy Lesego Ramafoko - 921230 0499 *** - Stand No C395, Khutsong Section, Phake, RATLHAGANA, 0432 - *Matheta*

165. Monnapule Samuel Moreo - 760905 5528 *** - B19696 Kololo Street, Extension 20, JOUBERTON, 2570 - *Moeng*

166. Nombulelo Bridgette Phenyane - 870911 0407 *** - Stand No 916, Nkohlakalo Trust, KABOKWENI, 1245 - *Radebe*

167. Mandisa Perfect Phenyane - 920904 5335 *** - Stand No 916, Nkohlakalo Trust, KABOKWENI, 1245 - *Radebe*

168. Daniel Nonyane - 800822 5651 *** - 22 Tsele Street, SAULSVILLE, 0125 - *Rasego*

169. Sharon Tshabalala - 001027 0813 *** - Cnr Mhiri Street, Lotus Garden, PRETORIA WEST, 0008 - *Singo*

170. Naledi Thabang Modupe - 980303 5258 *** - 56-19th Street, Menlo Park, PRETORIA, 0081 - *Mokgosi*

171. Oratile Kabelo Mogorosi Mogomotsi - 000619 5384 *** - 571 Block Jj, SOSHANGUVE, 0152 - *Bilankulu*

172. Nomthandazo Hillaria Makhudu - 920325 0100 *** - 62371 Zone 17, SEBOKENG, 1983 - *Mtimkulu*

173. Mpumeleli Richmond Gwebu - 920622 5378 *** - 3536-23rd Street, Etwatwa, DAVEYTON, 1520 - *Makhubalo*

174. Mphakamiseni Shongwe - 950128 6219 *** - Holinyoka Area, NONGOMA, 3950 - *Khumalo*

175. Mojaki Ephraim Utlwa - 860310 5666 *** - 6 Mashiya Street, Kgotsong , BOTHAVILLE, 9660 - *Mosianedi*

176. Palesa Margareth Rasego - 970402 0037 *** - 6393 Extension 3, SOSHANGUVE SOUTH, 0152 - *Mdzau*

177. Tebogo Maxwell Ramaphakela - 940804 5753 *** - House No R27, Gamakwetja, RAMOKGOPA, 0811 - *Sehlabane*

178. Given Mathebula - 770613 5734 *** - P O Box 87, XIMHUNGWE, 1281 - *Siwela*

179. Mthobisi Gabela - 970707 5824 *** - 648 Denver Squater Camp, JOHANNESBURG, 2000 - *Mhlongo*

180. Neo Kgosietsile Pholle Daniel Makgabo - 820525 5562 *** - 3 Woodhurst Court, Braampretorius Street, MONTANA, 0182 - *Malao*

181. Bertha Mmanko Dimakatso Masha - 750525 0423 *** - 714 Zone 1, MAHWELERENG, 0624 - *Kekana*

182. Sipho Kenneth Maringa - 770208 5709 *** - 1199 Denge Street, DAVEYTON, 1520 - *Mbewe*

183. Jan Ditshele Makhubela - 760202 6666 *** - 33 Little Falls, RUSTENBURG, 0299 - *Mausse*

184. Senzo Zamokuhle Mashiyane - 830523 5864 *** - 1618 Chief Mogale , Phase 2, KAGISO 2, 1754 - *Biyela*

185. Tshiamo Mihlali Molefe - 971009 0715 *** - 31 Kingsley Street, Groblerpark, ROODEPOORT, 1724 - *Ngumla*

186. Sharon Letlaila - 851028 0585 *** - 20399 Henzekile Street, Bloekombos, KRAAIFONTEIN, 7570 - *Nketsa*

187. Sithembiso Sibusiso Welcome Buthelezi - 810723 5483 *** - Kwamagwaza Area, MELMOTH, 3950 - *Zulu*

188. Gcwalisani Nkosimbeke Nxumalo - 031202 5934 *** - P O Box 1944, NONGOMA, 3950 - *Buthelezi*

189. Thabo James Moseki - 920918 5835 *** - House No E246b, Tshwara Section, PHOKENG, 0300 - *Sedikwe*

190. Thoriso Chamkwichi - 011228 5258 *** - 5064 Extension 38, MAHIKENG, 2745 - *Seate*

191. Moses Sehularo Mmulutsi - 850722 5427 *** - 10086 Ramosadi Village, MAHIKENG, 2745 - *Serekwa*

192. Tiro David Molapo - 740513 5456 *** - 23325 Extension 4, MAMELODI EAST, 0122 - *Ledwaba*

193. Boipelo Gladwin Mahanyele - 870423 5953 *** - 73 Basian Crescent, Pretoria Park, PRETORIA EAST, 0081 - *Khunou*

194. Loyiso Nkohla - 821007 5411 *** - 45 Amberfield Way, Surb Urban, DURBANVILLE, 7551 - *Mabandla*

195. Mandla Diboneng Nake - 780210 5837 *** - Stand No 5, MATAFFIN, 1205 - *Nyalungu*

196. Mohau Michael Motloung - 930606 5749 *** - 852 Mbeki, Bluegumbosch, PHUTHADITJHABA, 9870 - *Miya*

197. Mtha Shaun Nakani - 000128 5657 *** - P O Box 2456, QUEENSTOWN, 5322 - *George*

198. Karabo Duvoison Moleko - 880315 5618 *** - 969 Extension 1, SOSHANGUVE SOUTH, 0152 - *Maponjane*

199. Bongani Busisiwe Gift Motsili - 000602 0236 *** - 12 Molalakgori Street, Mahwelereng, MOKOPANE, 0626 - *Msibi*

200. Busiswa Thobile Dladla - 030901 0798 *** - P O Box 522, TUGELA FERRY, 3010 - *Mvelase*

201. Bradley Mohlolo - 950709 5831 *** - Stand No 63, Boelang, BUSHBUCKRIDGE, 1280 - *Pebane*

202. Xolane Jason Mudau - 010208 5186 *** - 64 King Dinizulu Street, Extension 2, DIEPSLOOT, 2092 - *Phoofolo*

203. Sipho Cyprian Maphisa - 961007 5311 *** - 418 Zone 2, FICKSBURG, 9730 - *Kobeli*

204. Andiswa Sbongakonke Ncube - 040704 1223 *** - Samkhele Area, Nkolokotho Area, MTUBATUBA, 3935 - *Ncanana*

205. Sandiso Sinokubonga Kunene - 040827 5420 *** - Langakazi Area, MAHLABATHINI, 3865 - *Xulu*

206. Thobani Mncube - 031201 5911 *** - Mabundeni Area, HLABISA, 3937 - *Madide*

207. Mkhuliseni Ndwandwe - 021213 5907 *** - Mahhashwi Area, NONGOMA, 3950 - *Thusi*

208. Dzhavhelo Ndou - 950914 5653 *** - Unit 25 Elephant Terrace, Waterberg Field, CENTURION, 0958 - *Nevari*

209. Tumelo Sydwell Mathiba - 830622 5630 *** - 238 Mphahlele Street, Moroka North, SOWETO, 1860 - *Moloko*

210. Nokwazi Precious Dlamini - 031127 0294 *** - Nhlalwana Location, HIGHFLATS, 3306 - *Msomi*

211. Kamogelo Leepo - 000516 0362 *** - 11817 Lomanyaneng Village, MAHIKENG, 2735 - *Sebolao*

212. Kapari Floyd Gatyeni - 960702 5416 *** - 12670 Itumeleng Street, MAMELODI EAST, 0122 - *Molokomme*

213. Ikhona Nqwakhuza - 010531 5554 *** - Bolotho Area, LADY FRERE, 5410 - *Soga*

214. Tryfinah Hope Maswanganyi - 951206 0434 *** - 469 Sondela Street, Emdeni, SOWETO, 1861 - *Rathabani*

215. Lwandile Nomvelo Emmerancia Luthuli - 990107 0347 *** - 888 Twala Section, KATLEHONG, 1422 - *Duma*

216. Precious Sindisiwe Twala - 900120 0275 *** - 10769 Imali Street, Extension 14, VOSLOORUS, 1475 - *Mkonza*

217. Londiwe Cherone Moloi - 040828 0805 *** - 1861 Sinqobile C, DAGGAKRAAL, 2470 - *Ndebele*

218. Itumeleng Nhlanhla Jiana - 900731 5460 *** - 36 Block Xx, Soshanguve , PRETORIA, 0152 - *Mahlangu*

219. Leon Mfundo Danisa - 940729 5565 *** - 176 Temple Road, DURBAN NORTH, 4051 - *Mngomezulu*

220. Mbali Amanda Theledi - 040518 1441 *** - Stand No 207, MSHANDZA, 1242 - *Sanderson*

221. Lindiwe Leatswe - 990420 1034 *** - House No 616, MAPOTENG, 8460 - *Rapelang*

222. Karabo Palleth Makolana - 940118 0412 *** - 3570 Zone 13, Hlalefang, SEBOKENG, 1983 - *Mollo*

223. Michael Mandla Kgalala - 920319 5538 *** - 63 Cata Libre, 5 Terenure, KEMPTON PARK, 1619 - *Mtshali*

224. Tahira Adams - 810216 0245 *** - 6 Overberg Crescent, Hillside Village, Isas Valley, STELLENBOSCH, 7600 - *Hendricks*

225. Lerato Michelle Beverley Mokgosi - 930410 0279 *** - 4796d Setlhauno Street, VRYBURG, 8601 - *Rampho*

226. Nompumelelo Meisie Mphahlela - 021126 0388 *** - 37877 Konyane Street, MAMELODI EAST, 0122 - *Kapa*

227. Kekeletso Hope Rakgalakane - 031224 0361 *** - Stand No 1426, KWAGGAFONTEIN C, 0458 - *Mahlangu*

228. Papiki Clement Nkwane - 860906 5707 *** - 993 Block M , SOSHANGUVE, 0152 - *Maleka*

229. Lynne Marx - 870521 0130 *** - 48 Maxwell Street, Risiville, VEREENIGING, 1929 - *Fourie*

230. Abraham Masondo - 790404 5545 *** - 91 Kwena Drive, MADIKWE, 2840 - *Mogope*

231. Payal Beepraj - 921111 0226 *** - 174 Margaret Mcandi Avenue, DURBAN, 4001 - *Kasichand*

232. Lawrence Kamogelo Sikwane - 890910 5436 *** - 714 Extension 2, Damonsville, BRITS, 0250 - *Kopana*

233. Brian Thabiso Ngidi - 931018 5408 *** - 266 Elias Madia Street, Extension 11, Kagiso, KRUGERSDORP, 1759 - *Msomi*

234. Ofentse Peter Motaung - 951218 5392 *** - 2886 Maseding Section, MAKAPANSTAD, 0407 - *Monama*

235. Sibusiso Elvis Mbonane - 930618 5564 *** - 368 Pride Of India, Pl Thatchfield Gardens, The Reeds, CENTURION, 0157 - *Maome*

236. Lethabo Lerumo - 950527 0258 *** - 367 Clanne Crescent, Waterkloof Ridge, PRETORIA, 0181 - *Mokgobo*

237. Nicholas Christopher Botha - 840507 5108 *** - 101-8th Avenue, Highlands North, JOHANNESBURG, 2192 - *Burnett*

238. Lefalaka Landane - 970106 0317 *** - 2521 Pitsi Crescent, JABULANI, 1864 - *Chilwane*

239. Warren Baltimore Peacock - 920715 5188 *** - 63 The Shades, Galjoen Street, GARSFONTEIN, 0082 - *Miller*

240. Phumulani Innocent Hadebe - 860608 5658 *** - Enkomokazini Area, LOSKOP, 3330 - *Ndlela*

241. Matseatsee Alex Mokolo - 790611 5710 *** - Phokoane Village, NEBO, 1059 - *Mosoa*

242. Temba Justice Magagula - 580719 5387 *** - 504 Mqansa Section, TEMBISA, 1632 - *Nkambule*

243. Carcendra Ntsakiso Sambo - 030320 1296 *** - 686 Masingita, GIYANI, 0826 - *Chavalala*

244. Orapeleng Nicholus Links - 760320 5021 *** - Crystal Street 69, KATHU, 8446 - *Makatong*

245. Rose Mbali Mogale - 010721 0058 080 *** - 3283 Puisano Street, Mahube Valley, Extention 3, MAMELODI, 0122 - *Mdluli*

246. Mogau Khwinana - 940207 6065 *** - 4006 Joe Slovo Park, Refilwe, CULLINAN, 1003 - *Kola*

247. Clive Shane Mpumelelo Mlungwana - 990128 5579 *** - 21 Magnolia Place, PINETOWN, 3610 - *Xulu*

248. Alfred Musa Maloleke - 810914 5925 *** - 3460 Mothotlung, Extention 2, BRITS, 0268 - *Mncwanga*

249. Ntsikelelo Bangiso - 810724 5715 *** - 17095 Bongweni Street, Brown's Farm, PHILLIPI, 7785 - *Mandla*

250. Muzikawufani Stanley Kubheka - 730615 6333 *** - Mpotholo Area, NKANDLA, 3855 - *Ntuli*

251. Xolisa Steven Nxala - 890308 5836 *** - W 375 Malan Crest, Site B, KHAYELITSHA, 7784 - *Stonga*

252. Londiwe Zuma - 001012 0601 *** - A 121 Mngadi Road, HAMMARSDALE, 3699 - *Gumede*

253. Atalia Mpheleli Mbatha - 991116 0332 *** - E 2h 16, Mandela Street, Marikane, EMALAHLENI, 6045 - *Sibiya*

254. Tshifhiwa Stanley Mudau - 830220 5759 *** - No 295, MASHAU, 0943 - *Masiya*

255. Nonjabulo Happiness Gabela - 900131 0531 *** - 3174 Unit 4, Imbali, PIETERMARITZBURG, 3200 - *Mtungwa*

256. Nomvula Promise Gabela - 850711 0427 *** - 3174 Imbali 14, PIETERMARITZBURG, 3201 - *Mtungwa*

257. Ludumo Alfred Mjanyelwa - 900804 5863 *** - Extention 4, NGQELENI, 5140 - *Toto*

258. Keletso Jacob Mokgethi - 910615 5617 *** - 07 Bretagne, BLOEMFONTEIN, 9301 - *Mmatladi*

259. Velaphi Sheriff Mbatha - 630315 5630 *** - B 2285, VRYHEID, 3105 - *Ndaba*

260. Fannie Lensford Matloga - 960429 5837 *** - Stand No Q27, Mamaila , Kolobetuna, MAKHADO, 0814 - *Mothemola*

261. Yolanda Hlanjwa - 011226 5236 *** - 1704 Khomo Street, Rocklands, BLOEMFONTEIN, 9323 - *Skosana*

262. Molise Michael Leeuw - 900716 5343 *** - 4252 Rampa Street, Rocklands, BLOEMFONTEIN, 9323 - *Sebatana*

263. Simon Kalan Strathern - 900408 5044 *** - 385 Stephen Dlaminiroad, DURBAN, 4001 - *Stipcich*

264. Thembalethu Haas - 000120 0834 *** - 320 Nu 14, Mdanisane, EAST LONDON, 5219 - *Khohlani*

265. Mandisa Vilakazi - 020202 0421 *** - Mfekayi Area, MTUBATUBA, 3935 - *Shezi*

266. Siyabonga Goodwell Nkosi - 921224 5719 *** - 4123 Cres Street, SOWETO, 1818 - *Mtsweni*

267. Sibusiso Edward Mdluli - 900905 5445 *** - 28635 Dlangamandla Street, Extention 5, MAMELODI, 0162 - *Maseko*

268. Martin Loloza Motwa - 880311 5755 *** - Intambo Area, MAMELODI, 0182 - *Nkosi*

269. Lucas Mashilo - 770930 5734 *** - 1658 Temba, TEMBA, 0407 - *Nkosi*

270. Itumeleng Makhurana - 980118 0473 *** - House 2072, Extention 1, Mahube , MAMELODI EAST, 0162 - *Moloto*

271. Austin Mashile - 010218 5210 *** - Rocky's Street, GRASKOP, 1270 - *Brown*

272. Rabunyane Klas Koloi - 850728 5676 *** - 17637 Letlabika Street, ROCKLANDS, 9323 - *Litsesane*

273. Tshepang Cavin Mokgema - 010322 5315 *** - 20390 Modise Street, BLOEMFONTEIN, 9323 - *Khodumo*

274. Refentse Kinsley Segoe - 020315 5115 *** - 220 Motlhatsa Lane, RANDBURG, 2188 - *Seoke*

275. Monyobi Emmanuel Mathibeli - 831214 5637 *** - 4457 Khayalethu Section, CARLETONVILLE, 2499 - *Zimba*

276. Michelle Molobela - 960119 0389 *** - House1624 , Block C, MABOPANE, 0190 - *Maluleka*

277. Siphokazi Pearl Mayeza - 010326 0420 *** - Ndwebu Area, HIGHFLATS, 3306 - *Ndlovu*

278. Linda Ayanda Mathe - 901216 5245 *** - 27 Kantoor Street, UTRECHT, 2980 - *Mfuphi*

279. Ntombizodwa Mzinyane - 900724 0342 *** - 05 Olivetti Street, Phase 2, Renstown, HAMMANSKRAAL, 0400 - *Sibiya*

280. Abel Sikhumbuzo Ngozo - 780306 5952 *** - 658 Rockrunner Street, STRETFORD, 1984 - *Gabela*

281. Yogaranie Singaram - 670206 0139 *** - Unit 7 Ascot Park, 23 Harrison Avebue, Lincoln Meade, PIETERMARITZBURG, 3200 - *David*

282. Phumudzo Patrick Kharivha - 790917 5579 *** - Khubvi Village, THOHOYANDOU, 0950 - *Mangale*

283. Vuyo Junior Mazwi - 040828 6315 *** - 6 Akasia, Jim Fouche Park, WELKOM, 9460 - *Magata*

284. Thokozani Enock Mxoseni - 971122 6106 *** - 4825 Extension 4, Sakhile, STANDERTON, 2430 - *Hlatshwayo*

285. Nonhlanhla Fortunate Mthembu - 020705 1419 *** - Kwaxamalala Area, PIETERMARITZBURG, 3200 - *Hlongwane*

286. Asher Monyanga - 900204 5678 *** - 14 Becksberg Avenue, Die Hoewes, CENTURION, 0157 - *Huhlwane*

287. Mpho Monyaku - 930304 5707 *** - 671 Block Aa, SOSHANGUVE, 0152 - *Nkosi*

288. Samkelo Thusi - 990904 6306 *** - 10303 Zaycka Location, PIETERMARITZBURG, 3201 - *Dube*

289. Andile Dennis Mmadi - 910726 5720 *** - 121 Block 2, Ackerville, WITBANK, 1039 - *Thugwane*

290. Prince Kgasago - 951125 5750 *** - Serobaneng Village, GA-MPHAHLELE, 0736 - *Malatole*

291. Sifiso Welcome Magwebu - 901118 5172 *** - New Location, CATHCART, 5310 - *Fakude*

292. Babin Petrus Dladla - 660415 5631 *** - 112 Blinkpan Village, BLINKPAN, 2252 - *Masangu*

293. Slindile Nokukhanya Mthembu - 881221 0545 *** - 260 Cowey Road, Modayan Flat, DURBAN, 4001 - *Buthelezi*

294. Gift Sihle Mposula - 830110 5584 *** - 334 Schrader Street, Zone 5, MEADOWLANDS, 1852 - *Ntshangase*

295. Madoda Ntingana Ndinisa - 820604 6059 *** - Belgrade Area, PONGOLA, 3172 - *Fakude*

296. Phillip Maropeng Ngaka - 750224 5646 *** - Zone 3, SESHEGO, 0742 - *Malebusha*

297. Kiaan Thulsie - 040505 5462 *** - 27 Beyers Naude Drive, Montgomery Park, RANDBURG, 2195 - *Gokal*

298. Alshaan Curtly Davids - 031003 6223 *** - 30 Mary Street, FLORIDA, 1710 - *Augustine*

299. Precious Vuyisile Phenyane - 780411 0324 *** - Stand No 916, Nkohlakalo Trust, KABOKWENI, 1245 - *Radebe*

300. Cheslin Adrian Rossouw - 960310 5057 *** - 559 Rebunie Street, CALVINIA, 8190 - *Lombard*

301. Elliot Thabiso Kurumatji - 850923 5808 *** - 12 Lentegeur Street, Hilton, ALIWAL NORTH, 9750 - *Makaotsi*

302. Phiwe Zileyi - 980107 1008 *** - I601 Aggetts Street , Mandela Park, HOUT BAY, 7806 - *Zuma*

303. Kgalushi Thato Mankoe - 031202 6261 *** - 816 Baccara Street, Montana, PRETORIA, 0184 - *Tsiri*

304. Stunkuza Jacob Nyaka - 710101 6429 *** - Stand No 6205, Extension 3, MHLUZI, 1003 - *Mokoana*

305. Tshegofatso Habakwe Molapo - 040825 0471 *** - 4168 Dipompong, MAJANENG, 0400 - *Mokaila*

306. Thobile Khalipa - 951218 5186 *** - 0922 Motseng Section, Thekwane, RUSTENBURG, 0311 - *Rapoo*

307. Mfundo Dlamini - 020526 6129 *** - Myanduya Area, SIBHAYI, 3967 - *Sithole*

308. Cebo Siyamthanda Mbhele - 040308 5380 *** - C594 Babukhulu Avenue, Umlazi Township, UMLAZI, 4031 - *Shozi*

309. Thalente Ithandile Jaca - 041211 5593 *** - 3392 Sphine Mkhize Road, KWAMAKHUTHA, 4126 - *Ndimande*

310. Madimetja Andrew Aphane - 830102 5358 *** - Ga-Ntamaties Area, ZEBEDIELE, 5632 - *Matsekoleng*

311. Nqobile Blessing Belebesi - 761011 5241 *** - Kwa Cele Area, Ward 17, Bhakajana, SCOTTBURGH, 4180 - *Nkontwana*

312. Siphesihle Mjabulisi Morale - 880202 6042 *** - No 7 Eagle Place, Majuba Park, NEWCASTLE, 2940 - *Mkhwanazi*

313. Sivuyile Mahlahla - 840309 5323 *** - 77 Winterhoek Drive, UITENHAGE, 6229 - *Ketse*

314. Tebatso Arnold Shibambo - 880630 5856 *** - 904 Block G, SOSHANGUVE, 0152 - *Baloyi*

315. Elliot Mokwena - 710625 6055 *** - Stand No 271, EKULINDENI, 1301 - *Nkosi*

316. Rannye Piet Rammusa - 770601 6089 *** - 577 Nairobi Street, Tshepisong, ROODEPOORT, 1752 - *Ntsoane*

317. Stembela Ngcobo - 890326 5570 *** - 09864 Kwazayeka Area, MPUMUZA, 3201 - *Dlungwane*

318. Smangele Mweli - 821112 0556 *** - F530 Khumbuza Road, KWA-MASHU, 4360 - *Mlambo*

319. Sello Jerry Matsi - 960408 5502 *** - 3981 Extension 5, Tshing, VENTERSDORP, 2710 - *Modisane*

320. Sibusiso Gift Sarela - 951017 5549 *** - 1487 Vuka Section, OUKASIE, 3250 - *Khumalo*

321. Philani Ngobese - 010115 5544 *** - Masangwenamhlophe Area, NQUTU, 3850 - *Hadebe*

322. Russia Langa - 750516 5908 *** - Mgungundlovu Area, MOUNT FRERE, 5090 - *Nozigqwaba*

323. Ephia Refilwe Ramela - 771106 0716 *** - 3979 Extension 10, Tsutsumani, ALEXANDRA, 2090 - *Segabutla*

324. Mpho Gift Maluleke - 990109 5501 *** - Stand No 336, Matobole Village, MAJA, 0719 - *Madie*

325. Phutego Macdonald Shabangu - 950224 5455 *** - Stand No 1369, Alexandra Trust, BUSHBUCKRIDGE, 1280 - *Chiloane*

326. Akesa Clement Kubayi - 000904 5632 *** - 36398 Phaswane Street, Reet Ext22, MAMELODI EAST, 0122 - *Mothwa*

327. Doctor Philip Ndala - 770119 5795 *** - Soshanguve Location , Block L, SOSHANGUVE, 0100 - *Selota*

328. Gugu Amanda Muofhe Mtonjeni - 910104 0411 *** - 598 Ext1, Kokosi Loc, FOCHUNE, 2515 - *Sigonde*

329. Shakeel Mohamed - 980926 5113 *** - 44 Price Street, Newclare, JOHANNESBURG, 2093 - *Mohamed O'Shea*

330. Thabo Mosella - 930113 5510 *** - 264 Eatonside, RESIDENSIA, 1984 - *Mthinya*

331. Nndanganeni Peter Katlego Kabini - 920212 5360 *** - 1628 Block F East, SOSHANGUVE, 0152 - *Mogale*

332. Lerato Millicent Mashego - 900817 0354 *** - 14962 Second Street, Ext 14, MAMELODI EAST, 0122 - *Madlopha*

333. Nompumelelo Virginia Mthembu - 720609 0708 *** - 7687 Mbali Street, DOBSONVILLE, 1863 - *Mabilisa*

334. Skhumbuzo Patson Mahlangu - 950629 5295 *** - 1598 Block G, SOSHANGUVE, 0152 - *Ndlovu*

335. Bongani Vincent Thela - 010910 5542 *** - Rusthoek Raru, VOLKSTRUST, 2470 - *Khumalo*

336. Unathi David Majavu - 040126 5613 *** - 1114 Unit J Imbali, PIETERMARITZBURG, 3201 - *Zuma*

337. Luyanda Mphlaba - 020819 6152 *** - 2164 Mpumelelo Location, FRANCE, 3200 - *Mkhize*

338. Uhone Makhari - 010702 6157 *** - No 925 Phumlani Street, IVORY PARK, 1632 - *Mukhuba*

339. Cassandra Phumzile Mokhonoana - 820310 0346 *** - 543 Concession Street, NELLMAPIUS, 0162 - *Mahlangu*

340. Simon Jonas Molebale - 820722 5871 *** - 23051 Pholwane Street, Ext 4, MAMELODI EAST, 0122 - *Mahlangu*

341. Khensani N Nxumalo - 040331 1351 *** - 269 Caledon Drive, Norkem Park, KEMPTON PARK, 1618 - *Nhlapo*

342. Talukanyani Peter Shandukani - 840805 5753 *** - Badama Stand No 07, LWAMONDO, 0985 - *Khwathisi*

343. Martha Sekedi Matlou - 931228 0755 *** - 8212 Legaula Street, Ext 36, OLIEVENHOUTBOSCH, 0175 - *Mashapo*

344. Nombulelo Mdluli - 920107 0834 *** - 350 Piteks Street, VRYHEID, 3100 - *Thabede*

345. Relebogile Moses Ndaba - 971024 5367 *** - 89 Ext 23, GA-RANKUA, 0208 - *Mabasa*

346. Nonkululeko Yvodia Xulu - 010902 0102 *** - 145 Mashinini Street, Balfour, SIYATHEMBA, 2410 - *Shabangu*

347. Mohlakwana Piet Ramohai - 010726 5662 *** - 814 Thabana-Tsoana, WITSIESHOEK, 9870 - *Mokoena*

348. William Mawelela - 890714 5725 *** - 641 Umabu Street, SOSHANGUVE, 0152 - *Chauke*

349. Motlokwa Phillip Nyaqela - 800412 5458 *** - 2053 More Street, Boikhutso, LICHTENBURG, 2740 - *Metswamere*

350. Nosipho Buthelezi - 000506 0654 *** - Nondweni Area, NQUTU, 3135 - *Ntuli*

351. Lungisani Nxele - 820918 5290 *** - House No 1596, Emarikana, VOLKSRUST, 2470 - *Makhalana*

352. Tefo Elton Tikane - 900503 5898 *** - Rdp House 6774, Mothibistad, KURUMAN, 8460 - *Kgarane*

353. Sibusiso Maguju - 861226 5819 *** - Mathunzi Reseve, Enseleni, RICHARDJ BAY, 3900 - *Magutshwa*

354. Luthando Mbena - 010926 6347 *** - 31914 Gqudu Street, Kuliyasa, KHAYELITSHA, 7784 - *Maciti*

355. Sakhumzi Maqwelane - 970531 6083 *** - J336 Songezo Street, KHAYELITSHA, 7784 - *Masoka*

356. Mtokozisi Martin Thwala - 870121 5318 *** - Watersmoet Village, LADYSMITH, 3370 - *Shabangu*

357. Makhauta Portia Moeketsane - 020730 0829 *** - 3053 Ext 6, Nlohlolwane, GOLOLAN, 9735 - *Tena*

358. Limpho Thomas Hlahatsi - 840801 5363 *** - 28801 Chrishani, BLOEMFONTEIN, 9323 - *Mofolo*

359. Tebogo Phake - 960528 5547 *** - 887 Zone16 Letlhaku Street, GA-RANKUWA, 0208 - *Motsepe*

360. Zamikhaya Michael Ndyaleni - 700810 6013 *** - 38 Oliver Street, Blekkies Dorp, UITENHAGE, 6229 - *Mangaliso*

361. Sphiwe Ngcobo - 041018 5116 *** - T1318 Umlazi Township, UMLAZI, 4060 - *Mayise*

362. Sphesihle Ngcobo - 041018 0120 *** - T1318 Umlazi Township, UMLAZI, 4060 - *Mayise*

363. Simon Reggie Maringa - 570317 5800 *** - 1235 Gija Street, DAVEYTON, 1520 - *Mbewe*

364. Nomfundo Promise Hlengwa- 030127 1145 *** -180214 Nagle Dam Road, CAMPERDOWN, 3720 - *Ngcobo*

365. Philisiwe Thembeka Shabalala- 990818 0548 *** -7680 – Extension 10, Tsutsumani, ALEXANDRA, 2090 - *Dlamini*

366. Thono Masemola- 000721 0181 *** -Ga-Masemola Village, PSHIRING, 1060 - *Matsimela*

367. Masungulo Mtileni- 990601 5452 *** -44516 Diepsloot, Extension 12, DIEPSLOOT, 2189 - *Mathebula*

368. Siyabonga Sizwe Magwenyane- 861015 5617 *** -1399 Padi Street, Katlehong, JOHANNESBURG, 1401 - *Mnisi*

369. Thandie Aleta Mochoeni- 430628 0385 *** -11629 Ivory Park, TEMBISA, 1632 - *Sibanyoni*

370. Thabo Archie Moloya- 811013 5347 *** -1449 Du Plessis Street, ALBERTON, 1449 - *Kekana*

371. Shaun Yandisa Gili- 860911 5904 *** -1038 Rover Road, Constantia Park, PRETORIA, 0181 - *Mabandla*

372. Zergio Dayle Diergaardt- 931105 5192 *** - Hoofweg 3639, PORT NOLLOTH, 8280 - *Baptista Alves*

373. Shane Moela- 921207 5687 *** -Tjibeng Village, ATOK, 0749 - *Matheba*

374. Tlaleng Tumisho Mampholo- 900731 5668 *** -10057 Kgadile Street, GAMAMPANA, 0467 - *Mampane*

375. Jason Van Der Merwe- 891225 5077 *** -Plot 61 Elandsvlei, Groot Elandsvlei, RANDFONTEIN, 1759 - *Heystek*

376. Martin Moleele- 850520 5922 *** -95-20 Avenue, ALEXANDRA, 2090 - *Hamisi*

377. Caroline Moleke- 921206 0123 *** -105 Middle Street, Brentwood Park, KEMPTON PARK, 1501 - *Sesele*

378. Botlenyana Ursula Makateng- 941003 0228 *** -323 Leboeng Section, TEMBISA, 1632 - *Nkadia*

379. Masipa Edward Mothemane- 830210 5895 *** -1555 Winnie Mandela, Zone 10, TEMBISA, 1632 - *Marokhu*

380. Lesiba Michael Aphane- 660309 5338 *** -Seruleng Village, GOMPIES, 0631 - *Lekgoathi*

381. Joann Lee Naidoo- 911015 0094 *** - 119 St Aidan,Barbeque Downs ,MIDRAND, 1684 - *Naiker*

382. Dimakatso Lettah Kofang – 910823 0999 *** - and a minor child – Bogosi Kofang – 190109 6302 *** - 64 Alan Manor Mews, Constantia Road, MANDEOR, 2091 - *Moepi*

383. Thami John Welkom – 710923 5658 *** - your wife – Mokudubete Maria Welkom – 731030 0532 *** - and two minor children – Thami Fikile Welkom – 090315 5656 *** - Dimpho Gift Welkom – 130413 0191 *** - 1742 Boneni Street, KGOTSONG, 9660 - *Monyane*

384. Mpho Manukha – 930621 5517 *** - and a minor child – Rotondwa Manukha – 210317 5488 *** - Phadzima Tshitavha Village, VHULAUDZI, 0926 - *Mafuna*

385. Henrina Vuyokazi Marianne Cebisa – 960105 0318 *** - and two minor children – Norincho Okuhle Cebisa – 181130 1222 *** - Hendricks Owen Vuyosani Cebisa – 201029 5668 *** - Madakane Village , Ward 22, MURCHISON, 4250 - *Mdingi*

386. Nokuphiwa Nobentungwa khumalo – 000520 0809 *** - and a minor child – Ndabezinhle Smukelo Thingo Khumalo – 211223 5736 *** - Moodie Street, HARDING, 4680 - *Ntanda*

387. Matodzi Mphaphuli – 920620 0506 *** - and a minor child – Ompha Miliswa Mphaphuli – 160715 1163 *** - House No 735410, Extension 3, SOSHANGUVE EAST, 0152 - *Tshidada*

388. Onkabetse Orbed Petrus – 860821 5384 *** - and a minor child – Lelentle Thatego Okgetilwe Petrus – 161222 5416 *** - House No 53436, MARUPING, 8460 - *Molema*

389. Precious Nomcebo Seakatsie -870731 0291 *** - and a minor child – Thandolwethu Lethabo Seakatsie – 130514 0426 *** - 1374 Mokhachane Street, Mapetla, SOWETO, 1818 - *Moshoeshoe*

390. Zandile Nombuso Manyoni -941231 0724 *** - and a minor child – Asiphile Awande Manyoni – 160524 0865 *** - Machibini Village, LADYSMITH, 3370 - *Dladla*

391. Thulani Pennuell Ndlovu - 681010 6471 *** - your wife – Tsholofelo Magdeline Ndlovu – 700509 9042 *** - and two minor children – Khanyisile Palesa Ndlovu – 031223 0497 *** - Bongani Kagiso Ndlovu – 110225 5147 *** - 3 Daardeberg Street, Helderwyk Estate, BRAKPAN, 1541 - *Mbatha*

392. Kuzile Wiseman Fumba – 561226 5642 *** - your wife – Ntombizakhe Vivienne Fumba – 600116 0732 *** - Mpekweni Location, RENNI, 5640 - *Stana*

393. Anthony Dumisani Mdluli – 731113 5551 *** - your wife – Nokulunga Jane Wendy Mdluli – 721030 0870 *** - C5742 Umhlonyane Walk, NTUZUMA, 4051 - *Buthelezi*

394. Sello Frank Nthoesane – 690713 5605 *** - your wife – Mapontso Sophia Nthoesane – 730506 0626 088 *** - and a minor child – Realeboha Frank Junior Nthoesane – 050117 5305 *** - 2445 Geluk Waarts, KROONSTAD, 9499 - *Tolbaard*

395. Nompilo Artin Tshezi – 930803 0562 *** - and a minor child – Snakhokonke Aphile Tshezi – 151105 5860 *** - 8016 Msonti Road, Imbali Unit 1, PIETERMARITZBURG, 3219 - *Mbatha*

396. Nombuyiselo Ntombizethu Malunga – 910807 0612 *** - and three minor children – Sanelisiwe Amahle Malunga – 090508 0965 *** - Nontokozo Nathi Malunga – 120601 0743 *** - Snezelo Lethu Malunga – 180701 6361 *** - 138 Gwala's Farm Area, TONGAAT, 4399 - *Maluleka*

397. Jimmy Jefrey Moeketsi – 771105 5551 *** - your wife – Bertha Moeketsi – 751206 1026 *** - 2039 Monageng Street, Kagiso 2, KRUGERSDORP, 1739 - *Ramela*

398. Reneilwe Christina Machaba – 951020 0327 *** - and two minor children – Rorisang Mbali Machaba – 121230 1182 *** - Nhlanhla Piet Machaba – 180816 6623 *** - 2182 Makalela Street, Section G, MAMELODI WEST, 0122 - *Sibanyoni*

399. Salome Matshidiso Malope – 900316 0507 *** - and two minor children – Kagiso Tshiamo Malope – 091207 6036 *** - Tshepo Junior Malope – 110428 5900 *** - 2731 Extension No 1, Refentse Street, REFILWE, 1003 - *Tolo*

400. Mpho Mpho Tlhape – 570823 5810 *** - your wife – Ngoknana Annah Tlhape – 580328 0941 *** - 966b Motswaledi Street, NALEDI, 1868 - *Ndlovu*

401. Ngwato Richmond Lekgoro – 790615 5531 *** - your wife – Milly Makamele Lekgoro – 800920 0455 *** - and three minor children – Lekwachego Patience Lekgoro – 060411 0869 *** - Thabo Sephora Lekgoro – 080215 1030 *** - Thabiso Machiri Lekgoro – 130717 5413 *** - Ga-Nchabeleg Village, LEFALANE, 0741 - *Letlabola*

402. Given Mabaso – 811219 5709 *** - your wife – Patience Mabaso – 870601 1405 *** - and three minor children – Siphesihle Angel Mabaso – 090206 0362 *** - Gift Mashudu Mabaso – 141028 5371 *** - Simphiwe Phathutshedzo Mabaso – 160408 5469 *** - 2571 Rockdale, Extension 2, MIDDELBURG, 1050 - *Nethavhani*
403. Lebogang Moropana – 800920 5779 *** - your wife – Reneilwe Dorothy Moropana – 831007 0537 *** - and two minor children – Oratilwe Moropana – 090207 0177 *** - Bohlale Moropana – 130524 0169 *** - 08 Saffraan Avenue, BOKSBURG, 1459 - *Ramaila*

404. Jerry Speelman Dube – 490924 5401 *** - your wife – Joana Nokufa Dube – 570921 0672 *** - 5291 Shelduck Street, ETWATWA, 1519 - *Makgakga*
405. Khaya Nomda – 770915 6343 *** - your wife – Sizakele Nomda – 830920 0767 *** - No 3286 Shayamoya, KOKSTAD, 4700 - *Mdingi*

406. Siyabonga Gift Gumbi – 900827 5278 *** - and a minor child – Khanyisile Gumbi – 190721 0731 *** - 141 Ethiopia Street, VOSLOORUS, 1475 - *Mtshali*
407. Masabata Jemina Moopeloa – 910809 0877 *** - and two minor children – Sthembiso Moopeloa – 100819 6163 *** - Tshepang Mojalefa Moopeloa – 120504 5879 *** - Plot 3 Irene, KROONSTAD, 9499 - *Nakedi*

408. Lerato Clifford Msikili – 820831 5879 *** - your wife – Dineo Msikili – 870326 1052 *** - and a minor child – Kamohelo Morena Msikili – 070925 6093 *** - 912 Mulberry Street, MAPLETON EXT 10, 1459 - *Motloung*

409. Siyanda Ferguson Nhlumayo – 840105 5705 *** - your wife Zinhle Claudia Nhlumayo – 900510 0825 *** - and two minor children – Khulani Prosper Nhlumayo – 200225 6427 *** - Zenande Khanyisa Nhlumayo – 180303 1153 *** - Bandlana Location, Ward 30, IZINGOLWENI, 4260 – *Masoka*
410. Fridah Makekolo Moabelo – 801120 0805 *** - and three minor children – Thabiso Laurence Moabelo – 070723 5784 *** - Judas Phologo Moabelo – 130205 6070 *** - Lerato Emily Moabelo – 160929 0916 *** - Mogoto Village,ZEBEDIELA, 2632 - *Chauke*

GENERAL NOTICES • ALGEMENE KENNISGEWINGS

DEPARTMENT OF AGRICULTURE, LAND REFORM AND RURAL DEVELOPMENT

NOTICE 1352 OF 2022

NAMC
Promoting market access for South African agriculture

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NEWS STATEMENT BY THE NATIONAL AGRICULTURAL MARKETING COUNCIL

APPLICATION FOR THE CONTINUATION OF STATUTORY MEASURES (RECORDS & RETURNS AND REGISTRATION) TO COLLECT EXPORT DATA RELATING TO TABLE GRAPES, DECIDUOUS FRUIT, DRIED GRAPES, BERRIES, SUBTROPICAL AND CITRUS FRUIT, IN TERMS OF THE MARKETING OF AGRICULTURAL PRODUCTS ACT (ACT NO 47 OF 1996)

REQUEST FOR COMMENTS / INPUTS FROM ROLE PLAYERS IN THE FRUIT INDUSTRY

On 21 September 2022, Agri-Hub applied, on behalf of directly affected groups in the fruit industry, to the Minister of Agriculture, Land Reform and Rural Development, for the continuation and amendment of statutory measures (records & returns and registration) on table grapes, deciduous fruit, dried grapes, berries, subtropical and citrus fruit, for a new four-year period (from date of implementation). The current statutory measures were implemented on 12 April 2019 and are due to expire on 11 April 2023.

During 2011, Agri-Hub, a Section 21 Company, was formed with the sole purpose of information gathering, collection and distribution in respect of fruit exported from South Africa.

In terms of the proposal, Agri-Hub will be responsible for the registration of directly affected groups, collection, and dissemination of information associated with the statutory measures that are requested for in terms of Agri-Hub's mandate as an objective and reliable provider of information in the South African fruit industry.

Market participants in the fruit industry (growers, pack houses, depots and exporters), are currently providing data. Their data is submitted *via* the industry standard transmission files, namely the Dispatch Transmission -, Mates Transmission -, Stock Transmission -, Intake Transmission - and Railings Transmission files and industry standard Application Programming Interfaces.

Council Members: Mr. A. Petersen (Chairperson), Ms. T. Ntshangase (Deputy Chairperson),
Prof. A. Jooste, Mr. S.J. Mhlaba, Ms. F. Mkile, Ms. N. Mokose, Ms. S. Naidoo, Mr. G. Schutte and Dr. S.T. Xaba.

These files are created by the systems that the stakeholders are using, supplied by the participating Information Service Providers. Agri-Hub initially required individual permission from the stakeholders to be able to use the data, until the current statutory measures were put in place.

However, through the previous voluntarily basis, only ±75% of fruit export data was collected, but with the implementation of the statutory measures, more than 95% of fruit export data was collected, which is deemed adequate for making strategic and informed marketing decisions.

Agri-Hub argues that information to be obtained in terms of the proposed statutory measures (registration and records & returns) is deemed to be essential for the market to operate effectively. The supply of generic market information to all role players on a continuous basis, is therefore essential.

The fruit industry requested the following statutory measures, namely –

- Records & returns: To be able to disseminate information as accurately as possible it is necessary for growers, exporters, pack houses, depots, marketers and information service providers to render records and returns on an individual basis.
- Registration: The system of compulsory registration of the growers, exporters, pack houses, depots, marketers and information service providers involved, will assist the administration of the statutory measure relating to records and returns.

The relevant grower associations (citrus, grapes, pome- and stone fruit) contributes financially and proportionally to Agri-Hub's annual expenditure. Due to the funding of Agri-Hub by the four associations, information can currently be released free of charge to participants.

Any information obtained will be dealt with in a confidential manner by Agri-Hub and no sensitive client-specific information will be made available to any party without the prior approval of the party whose rights may be affected. Only processed data which is stripped of all identifying characteristics i.e. exporter, grower, receiver, will be released.

Directly affected groups in the fruit industry are kindly requested to submit any comments regarding support or objections relating to the proposed establishment of statutory measures to the NAMC, in writing (e-mail to mathildavdw@namc.co.za) before or on 11 November 2022, to enable the Council to finalise its investigation and to a recommendation to the Minister in this regard.

DEPARTMENT OF BASIC EDUCATION

NOTICE 1353 OF 2022

UMALUSI Council for Quality Assurance in General and Further Education and Training

THE COUNCIL FOR QUALITY ASSURANCE IN GENERAL AND FURTHER EDUCATION AND TRAINING ("UMALUSI")

In terms of Section 24 of the National Qualifications Framework Act, Act 67 of 2008, as amended, Umalusi is the Quality Council for General and Further Education and Training.

Umalusi is mandated by the General and Further Education and Training Quality Assurance Act, 2001 (Act No. 58 of 2001) to issue certificates to candidates who have successfully achieved qualifications at exit points in general and further education and training.

Accordingly, Umalusi herewith publish the "POLICY FOR THE CERTIFICATION OF CANDIDATE RECORDS ON THE GENERAL AND FURTHER EDUCATION AND TRAINING QUALIFICATIONS SUB-FRAMEWORK" for implementation.

The gazette may be accessed at www.umalusi.org.za

PROFESSOR YUNUS BALLIM
CHAIRPERSON : UMALUSI COUNCIL

Date: 12/09/2022

POLICY FOR THE CERTIFICATION OF CANDIDATE RECORDS ON THE GENERAL AND FURTHER EDUCATION AND TRAINING QUALIFICATIONS SUB-FRAMEWORK

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ABBREVIATIONS AND ACRONYMS

ABET	Adult Basic Education and Training
CET	Community Education and Training
FET	Further Education and Training
GENFETQA	General and Further Education and Training Quality Assurance
GETC	General Education and Training Certificate
GFETQSF	General and Further Education and Training Qualifications Sub-framework
NATED	National Technical Education
NSC	National Senior Certificate
NC(V)	National Certificate (Vocational)
NQF	National Qualifications Framework
NLRD	National Learners' Records Database
SAQA	South African Qualifications Authority
TVET	Technical and Vocational Education and Training
Umalusi	Council for Quality Assurance in General and Further Education and Training

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CHAPTER 1

DEFINITIONS, OBJECTIVES AND APPLICATION

1. Definitions

The purpose of these definitions is to define the terminology used in developing this policy.

In this Policy-

(a) any word or expression to which meaning has been assigned in the *National Qualifications Framework Act, 2008 (Act No. 67 of 2008)* and the *General and Further Education and Training Quality Assurance Act 2001, (Act No. 58 of 2001)* shall have the meaning so assigned to it, unless the context otherwise indicates; and

(b) the singular shall include the plural and vice versa.

"assessment" – means the process of identifying, gathering and interpreting information about a learner's achievement in order to-

(a) assist the learner's development and improve the process of learning and teaching; and

(b) evaluate and certify competence in order to ensure qualification credibility.

"Assessment body" – means a juristic body accredited by the Council for Quality Assurance in General and Further Education and Training (Umalusi) to quality assure internal assessment and conduct external examinations and includes a department of education.

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"candidate" – refers to any person receiving tuition at a public or independent school or at a learning institution under an accredited assessment body, who enrolled for an examination.

"certification" – means the formal recognition of a qualification or part qualification awarded to a successful candidate.

"Department of Basic Education" – means the national department responsible for basic education, grades R to 12, which includes general and further education and training.

"Department of Higher Education and Training" – means the national department responsible for further education and training/technical and vocational education in colleges, higher education, and adult education and training.

"General and Further Education and Training Qualifications Sub-framework" – means the sub-framework of qualifications developed and managed by Umalusi for National Qualifications Framework (NQF) levels 1 to 4 as envisioned in Chapter 2 of the NQF Act.

"GENFETQA Act" – means the *General and Further Education and Training Quality Assurance Act, 2001 (Act No. 58 of 2001, as amended)*.

"Learning area certificate" – means the certificate issued by Umalusi where a candidate has not met the minimum requirements of the qualification but has obtained credits towards the qualification.

"Minister" – means the minister responsible for Basic Education or the minister responsible for Higher Education and Training.

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"National Qualifications Framework" – means the comprehensive system, approved by the Minister of Higher Education and Training, for the classification, registration, publication and articulation of quality assured national qualifications and part-qualifications. The South African NQF is a single integrated system comprising three coordinated qualifications sub-frameworks: those for General and Further Education and Training, for Higher Education and Training, and for Trades and Occupations.

"NQF Act" – means the *National Qualifications Framework Act, 2008 (Act No 67 of 2008, as amended*.

"part qualification" – means an assessed unit of learning (subject or learning area) with a clearly defined purpose that is, or will be, registered as part of a qualification on the NQF.

"qualification" – means a registered national qualification consisting of a planned combination of learning outcomes which has a defined purpose or purposes, intended to provide qualifying learners with applied competence and a basis for further learning and which has been assessed in terms of exit level outcomes, registered on the NQF, and certified and awarded by a recognised body.

"quality assurance" – means the process of measuring, evaluating and reporting on quality against standards, and monitoring for ongoing improvement in the qualification, the curriculum/programme, the assessment, the implementation and delivery of the curriculum, and the capacity of the institution or assessment body to offer and/or assess the qualification.

"replacement certificate" – means a certificate issued-

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(a) to a candidate who has not qualified for a certificate in one examination sitting (change of status);
(b) when the original is lost, damaged or destroyed (duplicate); and
(c) post-irregularity when the sanction period has elapsed.

"re-issue of a certificate" – means the re-issuing of a certificate where personal details on the original certificate are not correct or have legally changed or if the certificate was lost before receipt by the candidate.

"subject statement" – means the certificate issued by Umalusi where a candidate has not met the minimum requirements of the qualification but has obtained credits towards the qualification.

2. Introduction

(1) Umalusi, as the quality council for the General and Further Education and Training Qualifications Sub-framework (GFETQSF), must, in adherence to *section 27(i)* of the *National Qualifications Framework Act, 2008 (Act No. 67 of 2008)* (hereinafter referred to as the *NQF Act)*, develop policy to ensure compliance by both private and public assessment bodies regarding quality assurance of assessment.

(2) In adherence to the NQF's objectives, as contemplated in the aforementioned sub-paragraph (1), Umalusi is, in accordance with *section 17A(6)* of the *General and Further Education and Training Quality Assurance Act, 2001 (Act No. 58 of 2001*) (hereinafter referred to as the *GENFETQA Act),* responsible for the issuing of certificates to candidates who have achieved qualifications or part-qualifications, respectively.

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(3) Certification, as contemplated in sub-paragraph (2) above, is the formal recognition of candidates having successfully completed a qualification or part-qualification. In view of this, Umalusi is mandated to issue such certificates at exit points in general and further education and training.

3. Objectives

(1) In order to issue certificates as stipulated in *section 17A(6)* of the *GENFETQA Act*, 2001), Umalusi maintains the capacity to-

(a) develop and maintain policies and directives for certification;

(b) maintain acceptable standards for awarding certificates; and

(c) maintain a certification system and infrastructure, including appropriate security arrangements.

(2) In compliance with sub-paragraph (1) above, the following objectives are set; to-

(a) determine standards for the certification of qualifications registered on the GFETQSF as certified by Umalusi;

(b) ensure that the standards and requirements for certification are established through rigorous quality assurance processes;

(c) develop and manage the certification of candidate achievement through an appropriate certification programme;

(d) determine the norms and standards for certification through its directives and outline the certification process;

(e) advise the assessment bodies on certification matters; and

(f) ensure compliance of candidate resulting and certification data with policies and relevant legislation.

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4. Application

(1) This policy applies to certificates issued for the qualifications listed on the GFETQSF and issued by Umalusi-

(a) Senior Certificate (Report 550);

(b) National Senior Certificate (Schools);

(c) National Senior Certificate (reports 190 and 191);

(d) National N3 Certificate (reports 190 and 191);

(e) National Certificate (Vocational) (NC(V)), levels 2 to 4;

(f) Subject Certificate (Report 550 and reports 190 and 191);

(g) General Education and Training Certificate: Adult Basic Education and Training (GETC: ABET);

(h) Learning Area Certificates (GETC: ABET);

(i) Subject Statement (NC(V) and National Senior Certificate (NSC)); and

(j) Senior Certificate (as amended).

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CHAPTER 2

LEGISLATIVE CONTEXT

5. Underpinning legislation

(1) This policy is premised on the following acts-

(a) The *Constitution of the Republic of South Africa, 1996 (Act No. 108 of 1996);*

(b) The *National Qualifications Framework Act, 2008 (Act No. 67 of 2008) (*the *NQF Act, 2008);* and

(c) The *General and Further Education and Training Quality Assurance Act, 2001 (Act No. 58 of 2001*) (the *GENFETQA Act, 2001)*.

6. Mandate and responsibilities of Umalusi regarding certification

(1) *Section 24* of the *NQF Act (2008)* provides for the establishment of Umalusi as a quality council that is responsible for the development and management of a sub-framework of qualifications at levels 1 to 4 of the NQF and the related quality assurance processes.

(2) In accordance with *section 17A(6)* of the *GENFETQA Act (2001),* Umalusi is responsible for the issuing of certificates to learners who have achieved qualifications or part-qualifications registered on the GFETQSF, as contemplated in paragraph 3(1) above.

(3) In its role as a quality council, Umalusi is committed to issuing candidates with valid and credible certificates that are both nationally and internationally comparable.

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7. Supplementary documents

This policy must be read in conjunction with the following documents:

(1) Regulations-

(a) *Regulations for the issuing of certificates by the Council for Quality Assurance in General and Further Education and Training, amendment to the regulations as published in Government Gazette No 25794 of 2 December 2003, Government Gazette No. 38820* of 25 May 2015*;* and

(b) *Regulations pertaining to the National Curriculum Statement Grades R–12*, *Government Gazette No 40472* of 2 December 2016.

(2) Policies-

(a) *General and Further Education and Training Qualifications Sub-framework, promulgated in Government Gazette No. 36006 of 14 December 2012, as amended in Government Gazette No. 36803 of 30 August 2013,* published on 8 September 2014;

(b) *Conduct, Administration and Management of the National Senior Certificate Examination, Government Gazette No. 30048* of 6 July 2007;

(c) *National Requirements of the National Curriculum Statement Grades R–12, Government Gazette No. 36042* of 28 December 2012;

(d) *The Higher Education and Training Qualifications Sub-framework, Government Gazette No. 36003* of 14 December 2012; and

(e) *Policy for the Re-issue of National Certificates, Government Gazette No 41738* of 29 August 2018.

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(3) Directives for certification-

(a) *Directives for Certification National Senior Certificate (Schools)*;

(b) *Directives for Certification National Certificate (Vocational) Levels 2–4;*

(c) *Directives for Certification Senior Certificate, as amended;*

(d) *Directives for Certification of the General Education and Training Certificate*; and

(e) *Directives for Certification by Umalusi. Senior Certificate, National Senior Certificate (FET Colleges), N3 Certificate, General Education and Training Certificate (ABET Level 4)*.

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CHAPTER 3

ENUNCIATION OF UMALUSI'S PROCESSES AND PROCEDURES TO DEVELOP AND MANAGE AN APPROPRIATE SYSTEM FOR THE CERTIFICATION OF CANDIDATE ACHIEVEMENTS

8. Purpose

(1) The purpose of this policy is to provide direction to assessment bodies and Umalusi for the responsibilities associated with the certification of learner achievements as stipulated in *section 17A(6)* of the *GENFETQA Act, 2001*. This policy addresses responsibilities associated with the certification of existing qualifications, as well as with the certification of new qualifications developed for the GFETQSF managed by Umalusi.

(2) The policy provides a common understanding of the responsibility and requirement stipulated in the *GENFETQA Act, 2001*.

(3) The policy directs assessment bodies to request certification for candidates who satisfied the requirements of certificates listed in paragraph 4(1).

9. Processes and procedures for the development and management of an appropriate certification system

In pursuance of its aim, namely, to issue credible certificates to successful candidates which are nationally and internationally comparable, Umalusi has to develop processes and procedures for the development of such a certification system, as set out in paragraph 9(1). In the event of discrepancies that may occur during the certification

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process, special provision has been made to cater for these discrepancies in paragraph 9(3).

(1) Processes and procedures-

(a) The resulting data must be approved after an examination was conducted by the assessment bodies;

(b) Requests for the certification of candidate achievements must only be done after the results have been approved by Umalusi;

(c) All applications and requests for certification must be submitted to Umalusi by an assessment body within three months of the release of the results;

(d) Certification for candidates who did not apply for a re-mark or re-checking or a supplementary examination must be submitted within 10 days after the closing date for applications for re-marks, re-checks or supplementary examinations;

(e) A signed declaration to confirm the accuracy and authenticity of the examination data must be submitted to Umalusi with the request for the bulk certification;

(f) Rules of combination and pass requirements may change from year to year and therefore care must be taken to ensure that evaluation and resulting for a specific year is done in terms of the rules that apply to that examination, irrespective of what the future rules may be. In view of this, the rules applicable are those that applied at the date of the last examination that is included in the examination;

(g) The directives for certification, as published by Umalusi, must be adhered to for the certification of candidate records; and

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(h) Amendments to certificates may be requested, provided such amendments comply with the *Policy for the Re-issue of National Certificates*.

(2) Financial management-

(a) The following financial principles must be applied-

(i) Certification tariffs for private assessment bodies and private institutions are revised and set by Umalusi;

(ii) Private assessment bodies must be advised well in advance of changes to the tariffs to allow for budgeting;

(iii) New tariffs must be implemented on 1 April of each year;

(iv) Private assessment bodies must ensure that these tariffs are shared with their relevant stakeholders;

(v) Once a data set has been approved for certification, an invoice is generated for the attention of the private assessment body or private institution;

(vi) Certificates are released to the private assessment body or the college/school – as the case may be – if the invoices are paid; and

(vii) The certificates of private colleges with accounts in arrears for more than 90 days will be withheld until payment is received.

(3) The occurrence of discrepancies in the certification process-

(a) Discrepancy between the date for credit accumulation and the date of the enactment of the current certification requirements-

(i) A candidate is certified when the minimum requirements have been met for a specific

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qualification or subject/learning area, as stipulated in policy/regulations and directives that were in place and effective in the qualifying year;

(ii) If the date for obtaining the minimum requirements differs from the enactment date of the certification requirements, e.g. the final examination was completed in 1996, but the application for certification was in 2007, the qualification will be awarded in terms of the rules that applied in 1996, and the candidate will be resulted and issued with a certificate according to the rules effective in 1996. The current, i.e. 2007, rules do not apply in this case. In other words, the rules for the qualifying year will be applied; and

(iii) The application of different certification requirements, as contemplated in sub-paragraph (3)(a)(ii) above, is subject to a verification process by Umalusi to establish whether the differences in dates of meeting the minimum qualification requirements and the certification requirements are valid.

(b) Recognition of credits previously obtained-

(i) In the case that a candidate obtained credits towards a national qualification assessed by any of the education departments prior to 1992, i.e. the Senior Certificate, National Senior Certificate, National Technical Education (NATED) Certificate 190/191 or N3 Certificate, such credits may be recognised for the award of the Senior Certificate, National Senior Certificate, NATED 190/191 or N3 Certificate, subject to the compliance of the

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candidate with all the requirements for the award of the qualification; and

(ii) Changes to any of the qualifications, as contemplated in sub-paragraph (2)(b)(i) above, may affect the ruling as contemplated in the set sub-paragraph, should different transitional arrangements be determined.

(c) Review of qualifications-

(i) Following the review of a qualification, it may need to be amended or even regarded as no longer serving a need in the system. In such a case, Umalusi and the relevant ministry of education jointly determine a date after which the offering of a qualification on the GFETQSF ceases.

(ii) Transitional arrangements must be regulated, and the South African Qualifications Authority (SAQA) must be advised accordingly. Both parties determine and put into effect the transitional arrangements simultaneously; and

(iii) Institutions offering qualifications registered on the GFETQSF (public and private schools, public and private technical and vocational education and training (TVET)/community education and training (CET) colleges, and public and private adult learning/education centres) must be fully advised by means of a circular of amendments to a qualification, or of the transitional arrangements for a qualification that ceases to be offered.

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(d) Completion of outstanding requirements in order to meet certification requirements-

(i) The certification of a qualification, as contemplated in sub-paragraph (3)(c)(i), nevertheless remains a possibility. Should Umalusi establish whether the rules of combination prescribed in the policy document have met its approval, it could grant approval to a candidate for the completion of the outstanding requirements by offering a subject/s from an existing qualification.

(ii) Subject to Umalusi's decision in such a case, as contemplated in sub-paragraph (3)(d)(i), the qualification will be awarded, and the certificate issued will be effective in the month following the offering of the last subject.

(e) Phased-out qualifications-

(i) A qualification that is no longer offered is nevertheless retained on the GFETQSF and remains valid.

10. Responsibilities of the assessment bodies for the development and management of an appropriate certification system

(1) Assessment bodies must adhere to the regulations pertaining to the conduct, administration, and management of the national examinations.

The following sections from the regulations are of importance to the certification system-

(a) Registration of candidates.

(b) Management of irregularities;

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(c) Registration and accreditation of independent/private education institutions.
(d) Access to certification information; and
(e) Minimum requirements for an examination computer system.

(2) Assessment bodies must adhere to Umalusi's requirements for standardisation, statistical moderation and resulting, and must submit all candidate records to Umalusi for the approval of the examination results.

(3) Only candidates' records that were approved during the resulting process must be submitted to Umalusi for certification.

(4) The certification data submitted to Umalusi must comply with the directives for certification as published by Umalusi for the qualifications registered on the GFETQSF.

(5) Assessment bodies are responsible for preparing and submitting certification data to Umalusi in terms of first issues, re-issues and replacement certificates for candidates from September 1992 for qualifications on the GFETQSF.

(6) Assessment bodies must submit a signed declaration with the submission of the examination and resulting data for certification to Umalusi for bulk certification.

(7) Assessment bodies must ensure that all candidates' records are submitted for certification and are certified by Umalusi.

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(8) Assessment bodies must ensure that candidates enrol/register at independent/private educational institutions that are accredited by Umalusi

(9) The resulting and certification computer system must also support the automatic combination of academic records (subject statements) into a certificate and be able to process replacements (duplicates) or re-issues of certificates.

(10) Assessment bodies must ensure and apply stringent security measures during the processing of queries, the combination of results and the verification of results.

(11) Assessment bodies must ensure that there are backup copies of the electronic certification records and that data is securely saved.

(12) Assessment bodies are responsible for the collection of the certificates from Umalusi and distribution thereof to certificate holders.

11. Responsibilities of Umalusi for the development and management of an appropriate certification system

(1) Umalusi must ensure that policy and regulations governing the qualifications are translated into directives for certification for implementation on the certification processes and system.

(2) Umalusi is responsible for ensuring that, through rigorous quality assurance processes, the certificate it issues meets the minimum requirements for the qualification.

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(3) Umalusi must approve the resulting data during the standardisation and resulting processes and provide feedback on non-approved transactions.

(4) Umalusi must process requests for certification and ensure that all candidates who qualified for a certificate are issued with a certificate.

(5) Umalusi must ensure that all datasets are processed, records are certified and certificates are issued by ensuring the certification of candidate records and the issuing of certificates to candidates who have achieved a part or full qualification.

(6) To certify qualifications, Umalusi must verify that the computer system used by the assessment body complies with the qualification policy and requirements and that the data submitted for certification is reliable and valid.

(7) Umalusi manages the certification of candidate records through developing and managing a certification and verification system that complies with policy requirements and Umalusi's directives for certification, and which verifies and approves data for candidate certification submitted by accredited assessment bodies.

(8) Umalusi develops and manages suitable systems, processes and procedures for both the certification and verification of qualifications.

(9) Umalusi maintains an updated database of all certificates issued and keeps an audit trail on transactions executed by users on the system.

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(10) Umalusi controls access to the system and trains users to undertake the processing of information for candidate certification.

(11) Umalusi verifies candidate records on request.

(12) Umalusi must ensure that National Learners' Records Database (NLRD) data is submitted 30 days after quality assurance processes are completed.

(13) Candidates from unaccredited institutions will not be certified by Umalusi.

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CHAPTER 4

SECURITY OF THE CERTIFICATION SYSTEM AND THE SAFEKEEPING OF HISTORICAL CERTIFICATE RECORDS

12. Creation of a credible and secure certification environment

(1) Principles for ensuring security-

The following safety measures must be adhered to-

(a) Users with controlled access to the system must sign a declaration of confidentiality.
(b) All activities on the system must leave an audit trail.
(c) Accountable officers such as the system administrators must maintain and manage user access to the system.
(d) A modular approach for easy management of the system must be followed.
(e) Storage and printing of certificates must take place in a secure environment.
(f) A record of all certificates issued must be maintained.
(g) Credible certificate background paper, which has security features that are regularly enhanced, must be used; and
(h) Backup and storage of data must be maintained.

(2) Security features of the certificate-

Umalusi must ensure that the format for the certificate background paper includes various security features and must improve these security features frequently by introducing the latest developments in the field of security printing, with the aim of avoiding the possibility of fraudulent certificates being produced.

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(3) Monitoring of the security system-

Umalusi must-

(a) Monitor whether its printers comply with security policy; and

(b) Manage the printing and storage of certificates issued to candidates.

13. Unclaimed certificates

(1) All unclaimed certificates should be shredded after a period of five (5) years. All unclaimed certificates should be kept as follows at a venue or storage before shredding can take place-

(a) School: one (1) year.

(b) District or circuit: two (2) years; and

(c) Assessment body (Head Office): two (2) years.

(2) After five (5) years, the assessment body should shred all unclaimed certificates during the sixth year.

(3) Records for all shredded certificates should be captured and stored on the electronic certification system of the assessment body and that of Umalusi.

14. Access to certificate information and systems

(1) Only registered users must have access to the certification system.

(2) Users who are inactive for a period of six months must be removed.

(3) External users may only be granted viewing rights if approved by Umalusi.

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CHAPTER 5

CERTIFICATION OF CANDIDATE ACHIEVEMENT

15. Underlying principles for the certification of qualifications registered on the GFETQSF

(1) Each qualification that is registered on the GFETQSF is underpinned by-

(a) its own policy, which determines the candidate registration and certification requirements; and

(b) the necessary supporting documentation that allows for the implementation of the qualification.

(2) All policy and directives for the certification of qualifications are informed by the following, and are explicated in the relevant directives for certification-

(a) The *Policy for Further Education and Training Qualifications Sub-framework, Government Gazette No 38029* of 29 September 2014; and

(b) The individual qualification requirements, derived from the qualification policy.

16. Procedure for the issuing of certificates by means of public or private accredited assessment bodies

(1) Umalusi is responsible for the registration of qualifications on the GFETQSF of the NQF at SAQA to serve as a formal recognition of a qualification on the NQF.

(2) Prior to the issuing of a certificate for a qualification, Umalusi must satisfy itself that the results are verified as being of the required

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standard. Only after such approval of results by Umalusi, may a request from an assessment body for the issuing of a certificate be considered.

(3) The qualification submitted to Umalusi to be certified must comply with the following-

(a) Rules of combination.

(b) Council requirements for certification in terms of the *GENFETQA Act, 2001*.

(c) The policy governing the specific qualification; and

(d) The directives for certification.

(4) Umalusi must determine the following-

(a) Format of the certificate.

(b) Printed information on the certificate; and

(c) The way in which certificates are replaced.

(5) The final certificate to be issued must be signed by the CEO of Umalusi.

(6) The issuing of subject statements is optional and will be issued on request from the assessment body.

(7) A certification fee must be paid by private colleges and private assessment bodies for the issuing of certificates.

(8) Candidates from colleges that are suspended from receiving certificates due to fees not being paid may apply at Umalusi for the issuing of their individual certificates. The certificates will be printed upon receipt of proof of payment. The certification fee for this category will be reviewed annually.

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17. Certification of foreign qualifications and jointly quality assured qualifications

(1) Umalusi may consider the certification of qualifications that are jointly quality assured with other quality councils.

(2) Should Umalusi agree to certify a qualification (or a variant of a registered qualification) in terms of an inter-governmental agreement, Umalusi will advise the relevant minister of education regarding the role and responsibilities it is able to undertake in respect of the agreement and will issue directives for certification in this regard.

(3) Where it has been agreed among the parties that Umalusi will serve as the certification body on behalf of the ministry of education of another state or will recognise subjects from a foreign qualification as part of a registered South African qualification, such a body will have to adhere to the quality assurance and certification requirements determined by Umalusi.

18. The management of certified data

(1) Umalusi is the custodian of all certified data and is therefore responsible for verifying certified data for qualifications registered on the GFETQSF.

(2) Certified data is available for research purposes but must always be stored in a secured environment to protect the data of individual candidates.

(3) Certified data for research purposes, as contemplated in sub-paragraph (2) above, may only be used-

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(a) within the parameters determined by Umalusi's Ethics Policy and adherence to public laws.

(b) subject to the approval of the CEO in the case of third-party requests for certified data from Umalusi for research purposes only, provided the request has been done in good faith; and

(c) if the necessary authority is exercised in compliance with applicable laws relating to protection of information.

(4) In the event of an assessment body being de-accredited or closes down-

(a) A written agreement with regard to the finalisation of assessment data for certification between Umalusi and the outgoing assessment body must be put in place.

(b) All assessment data and examination administration information from the de-accredited assessment body must be handed over to Umalusi for safekeeping; and

(c) Candidates from the affected assessment bodies may apply for their lost certificates at Umalusi after the assessment body has been de-accredited.

(5) If an assessment body is no longer accredited by Umalusi, the certification data of candidates must be available as reliable and valid certification data in order to allow a candidate to request a replacement certificate.

(6) In the event of an assessment body no longer being accredited by Umalusi, as contemplated in sub-paragraph (5), Umalusi, who is the custodian of the certified data, may approach another accredited assessment body or a department of education to host the examination and resulting data for certification purposes.

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(7) The candidates registered at the assessment body no longer accredited by Umalusi, as contemplated in sub-paragraph (6), will be allowed to request a replacement certificate through the nominated hosted assessment body contemplated in sub-paragraph (6). No changes to data of candidates on certificates issued in such case will be accommodated; only a replacement of a certificate must be issued.

19. Concessions

(1) If a candidate has not complied with the minimum entrance requirements for a qualification, an assessment body may request the minister of education to provide a special concession, after consultation with Umalusi, and the relevant policy must be updated according to the decision taken.

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CHAPTER 6

REGULATIONS

20. Development of regulations

(1) In terms of *section 27* of the *GENFETQA Act, 2001*, the Minister of Basic Education may make regulations regarding any matter that may or must be prescribed by regulation in terms of the said Act.

(2) Umalusi may, in terms of *Section 27* of the *GENFETQA Act,* as contemplated in sub-paragraph (1) above, request the Minister of Basic Education to develop regulations with regard to the issuing of certificates for qualifications registered on the GFETQSF.

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CHAPTER 7

TRANSITIONAL ARRANGEMENTS AND SHORT TITLE

21. Transitional arrangements

Until such time as the Chairperson of Umalusi Council has promulgated the *Policy for the Certification of Candidate Records on the General and Further Education and Training Qualifications Sub-framework (External*) in the *Government Gazette*, the said policy will be implemented as directives for a transitional period, commencing on the date of approval by the Umalusi Council.

22. Short title

This policy may be cited as the *Policy for the Certification of Candidate Records on the General and Further Education and Training Qualifications Sub-framework (External*) and will commence on the day of its promulgation in the *Government Gazette*.

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UMALUSI Council for Quality Assurance in General and Further Education and Training

THE COUNCIL FOR QUALITY ASSURANCE IN GENERAL AND FURTHER EDUCATION AND TRAINING ("UMALUSI")

In terms of Section 24 of the National Qualifications Framework Act (Act 67 of 2008), Umalusi is the Quality Council for General and Further Education and Training.

In 2001 Umalusi, the Council for Quality Assurance in General and Further Education and Training, was mandated by parliament, in its founding Act, General and Further Education and Training Quality Assurance Act, 2001 (Act 58 of 2001) as amended, as the quality assurance body for qualifications at Levels 1 – 4 of the National Qualifications Framework (NQF).

In terms of section 27 of the National Qualifications Framework Act, 67 of 2008, Umalusi hereby gives notice for the publication of the gazette for public comments on *the Policy for Credit Accumulation and Transfer*.

The policy may be accessed at www.umalusi.org.za

If any party is unable to access the document from the website for any reason, please contact Dr Stephan Mchunu at 012 030 0795 for assistance.

All interested persons and organisations are invited to comment on *the Policy for Credit Accumulation and Transfer* in writing and to direct their comments to:

The Chief Executive Officer
Umalusi
PO Box 151
Persequor Technopark
Pretoria
0020
South Africa

Attention: Dr Stephan Mchunu
E-mail: Stephan.Mchunu@umalusi.org.za

Kindly provide the name, address, telephone number, and e-mail address of the person or organisation when submitting comments. Comments should reach the Umalusi within 30 calendar days of publication of this notice.

PROFESSOR YUNUS BALLIM
CHAIRPERSON : UMALUSI COUNCIL

Date: 12/09/2022

Public comment

UMALUSI Council for Quality Assurance in General and Further Education and Training

POLICY FOR

CREDIT ACCUMULATION AND TRANSFER

Umalusi

Public comment

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POLICY FOR

CREDIT ACCUMULATION AND TRANSFER

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1. Definitions and glossary

Any word or expression in this document to which a meaning has been assigned in the National Qualifications Framework (NQF) Act (Act 67 of 2008) as amended, and the General and Further Education and Training Quality Assurance Act (GFETQSF) (Act 58 of 2001) as amended, or SAQA's NQF Glossary of Terms (the 'NQF Pedia'), a copy of which may be found at https://www.saqa.org.za/sites/default/files/2019-11/NQFPedia_0.pdf has the same meaning when used in this document, unless otherwise indicated. Where a gloss is needed for the GFETQSF this is provided in the following glossary, and where a term is not defined in either the Act or the NQF Pedia, its usage in this policy document bears the meaning given below

Access	Means the opportunity to pursue education and training, including relevant qualifications, part-qualifications, professional designations, opportunities in the workplace and career progression.
Accredited provider	In the context of the GFETQSF, 'accredited provider' means recognition of (a) the capacity of a private provider (independent school, private FET college or private adult learning centre) to offer a qualification on the GFETQSF, including the provider's implementation of the curriculum in support of the qualification at the required standard; and (b) the capacity of a private assessment body to assess a qualification on the GFETQSF, including the quality and standard of the assessment services and products provided by the private assessment body. As part of its quality assurance processes, Umalusi accredits private providers and private assessment bodies in the GFETQSF context. The term 'accredited learning programme' is applicable to the Higher Education Qualifications Sub-Framework (HEQSF) context.
Articulation	Means the process of forming systemic, specific and individual possibilities of connection between qualifications and/or part-qualifications to allow for the horizontal/lateral, vertical and diagonal movement of learners through the formal education and training system and its linkages with the world of work: i Horizontal articulation is articulation within and between NQF sub-frameworks on the same NQF level; ii. Vertical articulation is articulation between NQF levels within an NQF sub-framework;

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	iii. Diagonal articulation is articulation between NQF levels and across NQF sub-frameworks; iv. Systemic articulation is a 'joined up' system including qualifications, professional designations, policies and various other official elements that support learning and work pathways; v. Specific articulation means aligning qualifications in inter- or intra- institutional agreements such as memoranda of understanding, credit accumulation and transfer and other mechanisms; vi. Individual articulation refers to learners being supported in their learning and work pathways by flexible admission, curricula, learning and teaching, and learner support systems such as the quality of qualifications and learning, career development services, and other mechanisms.
Assessment	Means the processes used to identify, gather and interpret information and evidence against the required competencies in a qualification, part-qualification or professional designation in order to: (a) make judgements about a learner's achievement. (a) assist the learner's development and improve the process of learning and teaching; and (b) evaluate and certify competence to ensure qualification credibility. Assessment includes evaluations that lead to judgements.
Assessment body	Means a department of education or a juristic body accredited by the Council as a body responsible for conducting internal assessment and external examinations.
Council	Means Umalusi, the Quality Council for General and Further Education and Training, as contemplated in the *National Qualifications Framework Act (Act 67 of 2008)* and the *General and Further Education and Training Quality Assurance Act (Act 58 of 2001)*.
Certification	Means the formal recognition of a qualification or part-qualification awarded to a successful learner.

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Comparability	Means the degree of similarity between two or more qualifications/part-qualifications in terms of purpose, level, credits and learning outcomes used to determine the extent of credit accumulation and/or transfer within or between entities. The matching of curricular properties should also be considered when comparability is determined.
Credit accumulation	Means the totalling of the relevant credits required to complete a qualification or part-qualification.
Credit accumulation and transfer (CAT)	Means the practice of accumulating credits from one or more cognate learning programmes through a provider and transferring those credits to be recognised towards a qualification/ part-qualification in the same or different provider context.
Credit matrix	Means a system in which learning outcomes can be arranged and compared in levels of increased complexity based on agreed groupings of credits, such as in modules/ subjects or part-qualifications.
Credit transfer	Means the vertical, horizontal or diagonal relocation of credits towards a qualification or part-qualification on the same or different NQF level, usually between different programmes, departments or institutions.
Credits	Means the amount of learning contained in a qualification or part-qualification whereby one (1) credit is equated to ten (10) notional hours of learning.
Curriculum	Means a statement of the training structure and expected methods of learning, teaching and assessment that underpin a qualification or part-qualification, and intended to facilitate a general understanding of its implementation in the education system. The curriculum encompasses three components: a) The intended curriculum: an official guideline document that provides the core features, principles, topic areas, specified content and skills, and expected level of cognitive demand; b) The enacted curriculum: the enactment/implementation/delivery of the curriculum by an institution. This includes leadership and management, the ethos and values of the curriculum, teaching and learning, extra-curricular activities, learner support, institutional performance and the management of quality towards improvement.

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	c) The assessed curriculum: the internal assessment and the external examination of the intended curriculum.
Designated variants	Means the layer of qualification specialisation nested within the qualification type in the GFETQSF (for example, the National Certificate (NC) as a qualification type at Level 4 of the NQF has the following designated variants: SC(a), NSC, NC(V), and NASCA; and the General Certificate (GC) as a qualification type at Level 1 of the NQF has the following designated variants: GCE, ABET and GETCA.
Exclusionary practices	Mean any systems and processes that are designed to limit the opportunities of specific individuals or groups of people seeking access to further learning or professional development when they meet the legitimate criteria for admission or professional registration. Unfair exclusionary practices limit opportunities and are based on illegitimate criteria including but not limited to population group, disability, gender and affordability, and may be contested.
External assessment	Means any assessment conducted by an assessment body that is not directly involved in the development and/or delivery of the learning programme, the outcomes of which count towards the achievement of a qualification.
Formal learning	Means learning that occurs in an organised and structured education and training environment and is explicitly designated as such.
Further Education and Training	Means all learning and training curricula leading to qualifications on NQF Levels 2–4.
General Education and Training	Means all learning and training curricula leading to a qualification on Level 1 of the NQF, the level below further education and training.
General and Further Education and Training Qualifications Sub-framework (GFETQSF)	Means the sub-framework of qualifications on NQF Levels 1–4 developed and managed by Umalusi Quality Council as envisioned in sections 4–7 of the *National Qualifications Framework Act (Act 67 of 2008)*. The GFETQSF is a sub-system of the NQF that requires co-ordination with the sub-frameworks developed and managed by the Quality Council for Higher Education and the Quality Council for Trades and Occupations.
Informal learning	Means learning that results from daily activities related to paid or unpaid work, family or community life, or leisure; it can include deliberate self-teaching.
Learner	Means anyone of any age engaged in learning at any level of the NQF, and in any NQF, work or social context,

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	including formal, informal and non-formal learning; used interchangeably with 'student'.
Learning pathways	[See 'Articulation']
Learning programme	Means a structured and purposeful set of learning experiences comprising modules/subjects and other learning activities, which together contributes to the achievement of specified learning outcomes.
Level descriptor	Means a statement that describes learning achievement at a particular level of the NQF and provides a broad indication of the type of learning outcomes and assessment criteria that are appropriate to a qualification/part-qualification at that level.
Lifelong learning	Means learning that takes place in the context of everyday life, from a life-wide, life-deep, and lifelong perspective. It includes learning behaviours and developing knowledge, understanding, attitudes, values and competencies for personal growth, social and economic well-being, democratic citizenship, cultural identity, and employability.
National Qualifications Framework (NQF)	Means the comprehensive ten-level framework and system approved by the Minister of Higher Education, Science and Innovation for the classification, coordination, registration, publication and articulation of quality-assured national qualifications and part-qualifications.
Non-formal learning	Means planned learning activities not explicitly designated as learning towards the achievement of a qualification or part-qualification; non-formal learning is often associated with learning that results in improved workplace practice.
Notional hours of learning	Means the agreed estimate of the learning time required by an average learner to meet the defined outcomes. It takes into account contact time, research, completion of assignments, time spent on structured learning in the workplace and individual learning. Ten (10) notional hours equate to one (1) credit.
NQF Act	Means the South African National Qualifications Framework (NQF) Act No. 67 of 2008, as amended.
Outcomes	Means the contextually demonstrated end-products of specific learning processes; outcomes include knowledge, skills and values, and may be generic or specific.
Part-qualification	Means an assessed unit of learning that is registered as part of a qualification on the NQF.
Professional body	Means any statutory or non-statutory body that sets professional standards and registers individual expert practitioners in an occupational field.

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Professional designation	Means a title or status conferred by a professional body in recognition of a person's expertise and/ or right to practise in an occupational field.
Programme	Means a purposeful and structured set of learning experiences that leads to a qualification. Programmes may be discipline based, professional, career-focused, trans-, inter-, or multi-disciplinary in nature. A programme has recognised entry and exit points.
Provider	[See 'Recognised provider'].
Qualification	Means a registered national qualification.
Quality council	Means one of three councils, each tasked with developing and overseeing one of the three sub-frameworks that comprise the NQF to ensure that agreed quality standards are met: the Council on Higher Education (CHE) for the HEQSF, Umalusi for the GFETQSF and the Quality Council for Trades and Occupations (QCTO) for the OQSF.
Recognised provider	Means, in South Africa, a public or private entity that offers any learning programmes that lead to qualifications and/or part-qualifications registered on the NQF, that is, (1) accredited by Umalusi or deemed accredited in the GFETQSF context, or (2) that is accredited by the QCTO as a skills development provider in the Occupational Qualifications Sub-Framework (OQSF) context, or (3) offers programmes that are accredited by the CHE. Independent schools must be registered and private higher education institutions, private FET colleges and private community and adult learning centres must be registered with the Department of Higher Education and Training (DHET).
Recognition of Prior Learning (RPL)	RPL means the principles and processes through which a person's prior knowledge and skills are made visible, mediated and assessed for the purposes of one or more of the following: alternative access and admission, recognition and certification, or further learning and development.
Registered qualification	A qualification registered on the GFETQSF of the NQF by SAQA in terms of *section 13(1)(h)* of the *National Qualifications Framework Act (Act 67 of 2008)*.
Standard	Statement of level of quality or attainment required.
Sub-framework of the NQF	Means one of the three coordinated qualifications sub-frameworks that make up the NQF as a single integrated system, namely, the Higher Education Qualifications Sub-Framework (HEQSF), the GFETQSF and the OQSF.
Umalusi	The Council for Quality Assurance in General and Further Education and Training established in terms of the *General*

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	and Further Education and Training Quality Assurance Act (Act 58 of 2001).

2. Acronyms and Abbreviations

ABET	Adult Basic Education and Training
CAT	Credit accumulation and transfer
CHE	Council on Higher Education
DBE	Department of Basic Education
DHET	Department of Higher Education and Training
EC	Elementary Certificate
FET	Further Education and Training
GC	General Certificate
GCE	General Certificate of Education
GEC	General Education Certificate
GENFETQA	General and Further Education and Training Quality Assurance
GETCA	General Education and Training Certificate for Adults
GFETQSF	General and Further Education and Training Qualifications Sub-Framework
HEQSF	Higher Education Qualifications Sub-Framework
IC	Intermediate Certificate
NASCA	National Senior Certificate for Adults
NC	National Certificate
NC(V)	National Certificate (Vocational)
NLRD	National Learners' Records Database
NQF	National Qualifications Framework
NSC	National Senior Certificate
OQSF	Occupational Qualifications Sub-Framework
QC	Quality Council
QCTO	Quality Council for Trades and Occupations
RPL	Recognition of Prior Learning
SAQA	South African Qualifications Authority
SC(a)	Senior Certificate (amended)

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3. Background

3.1 The NQF is a single integrated system that comprises three qualifications sub-frameworks, coordinated by the SAQA, as follows:

- the HEQSF overseen by the CHE,
- the GFETQSF overseen by Umalusi, and
- the OQSF overseen by the QCTO.

The NQF structure recognises the distinctions and relations between various knowledge and skills domains in the basic, higher, vocational and occupational NQF sub-framework contexts.

3.2 The GFETQSF is constituted as a register of *qualification types (general and vocational),* some with designated variants, and each consisting of combinations of various subjects, each of which is supported by a prescribed curriculum and is subject to external national assessment. Umalusi sets and maintains standards through the quality assurance of the intended, enacted and assessed curricula. These standards relate to domains of knowledge and associated skills, and to the curriculum and assessment practices through which they are achieved.

3.3 Umalusi's (2014) Policy *for the General and Further Education and Training Qualifications Sub-Framework* outlines the nature and extent of the qualifications on the GFETQSF and supports the building of a common understanding of the relationships between qualifications. Through related policy, parameters for the design of *national* qualifications in the GFETQSF context are established. These parameters facilitate the general comparability of qualifications across the national system thus allowing for greater ease of access

3.4 The GFETQSF comprises qualifications offered in formal education contexts.

3.5 All qualifications on the GFETQSF require the mastery of a body of (disciplinary) knowledge and related skills.

3.6 Quality assurance of the delivery of GFETQSF qualifications forms an intrinsic part of the development of the system of basic education as a whole, and of the GFETQSF specifically. Consequently, Umalusi monitors the implementation and quality assures those qualifications that it has registered on the GFETQSF. Umalusi certifies qualifications it has quality assured in accordance with the applicable policies.

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4. Legislative context

4.1 In terms of the NQF Act (Act 67 of 2008), Umalusi is the Quality Council (QC) for General and Further Education and Training as provided for in the GENFETQA Act (Act 58 of 2001) (as amended in 2008). It was established under the SAQA Act (Act 58 of 1995). It continues under the NQF Act (Act 67 of 2008), which came into effect on 1 June 2009.

4.2 In terms of the GENFETQA Act, Umalusi Council is responsible for the GFETQSF of the NQF. Section 27 of the NQF Act outlines the functions of the QC. To achieve the objectives of the NQF regarding the qualifications within the GFETQSF, section 27(h)(ii) states that Umalusi must develop and implement policy and criteria for assessment, recognition of prior learning and credit accumulation and transfer for the qualifications within the GFETQSF.

5. Scope and application of this policy

5.1 This policy gives effect in part to the requirements of section 27(h)(ii) of the NQF Act. The policy refers to Credit Accumulation and Transfer (CAT) as well as to exemptions.

5.2 This policy must be read in conjunction with the following policies:

a) Umalusi's Policy for the GFETQSF (2014);
b) Umalusi's Policy for the management of qualifications in the GFETQSF;
c) Umalusi's Policy and Criteria for the development, registration and publication of qualifications for GFETQSF;
d) SAQA's Policy and Criteria for CAT within the NQF (2021);
e) SAQA's Policy and Criteria for the Implementation of RPL (2019);
f) SAQA's Policy and Criteria for Designing and Implementing Assessment for NQF Qualifications and Part-Qualifications and Professional Designations in South Africa (2014 and as updated); and
g) DHET Articulation Policy (2017).

5.3 This policy applies to:

a) All qualifications and part-qualifications registered on the GFETQSF;
b) The specific policy for each qualification or part-qualification referred to in (a) above, which must be interpreted in relation to this policy;

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c) All public and all accredited private institutions of education and training that offer qualifications and part-qualifications registered on the GFETQSF; and

5.4 This policy addresses responsibilities associated with credit accumulation and transfer in existing qualifications and with the development of new qualifications on the GFETQSF,

6. Purpose

6.1 The *Policy for CAT* is intended to promote learners' articulation/learning pathways and lifelong learning, their access to new learning and the avoidance, where possible, of the repetition of learning they have already acquired.

7. Articulation within the General and Further Education and Training Qualifications Sub-framework

7.1 Articulation is the process of forming systemic, specific and individual possibilities of connection between qualifications and/or part-qualifications to allow for the horizontal, vertical and diagonal movement of learners through the formal education and training system and its linkages with the world of work. These connections may allow access to another qualification, the exemption of some prerequisites or minimum admission requirements for a qualification, or the acceptance of resulted learning from one qualification for the purposes of another qualification, i.e., the granting of credit.

7.2 CAT, along with the RPL, are important mechanisms within the national education and training system that facilitate articulation. CAT is the practice of accumulating credits from one or more cognate learning programmes from a provider and transferring these credits for recognition for a qualification/part-qualification offered by the same or a different provider. Credits previously obtained may be recognised as meeting the requirements for a different qualification and, subject to identified limits, credits achieved towards one qualification may be recognised as meeting part of the requirements for another qualification. Credits here refer the learning required for a qualification or part-qualification whereby one (1) credit is equated to ten (10) notional

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hours of learning. In addition, credit accumulation will mean the sum of the relevant credits required to complete a qualification or part-qualification.

7.3 The relationship between qualifications gained by means of *CAT* is determined by research that establishes the degree of overlap and/or equivalence of related curricula in the respective qualifications that would allow for RPL and credit transfer. Qualifications that allow for CAT may be on the same or a different sub-framework.

7.4 Credit accumulation relates to the process of achieving subject statements/certificates progressively (i.e. not in a single academic year) towards a qualification. Provided that the subjects achieved over the extended period conform to the rules of combination for the qualification, the full qualification is awarded upon request.

7.5 In the case of some qualifications, the maximum number of years in which to complete the qualification may be stipulated.

7.6 Not all subjects will be automatically considered for recognition or credit accumulation and transfer. Acceptance is determined by the nature and structure of the desired qualification and is established by an evaluation of equivalence at curriculum level.

8. Articulation <u>across</u> NQF sub-frameworks

8.1 In the case of large scale, national qualifications such as those on the GFETQSF, the regulation of articulation options between qualifications is possible, desirable and necessary. The articulation between a national qualification and others (such as between an NSC, a bachelor's degree, diploma or higher certificate on HEQSF, or between a GEC and an elementary, intermediate or national occupational certificate in the OQSF, for example, is possible because issues of qualification purpose, curriculum, uniform quality assurance and assessment are considered to be sufficiently understood and adequately managed.

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8.2 The processes used to make connections and enable CAT between qualifications in different NQF sub-frameworks include but are not limited to:

- the identification of access possibilities in a qualification policy;
- the regulation of formal relationships between qualifications;
- research that highlights the extent and nature of the overlap that can be used for articulation purposes; and
- the active re-working of curricula and assessment across qualifications to create a functional and recognised bridge between one qualification and another.

9. Principles governing the implementation of the Policy for Credit Accumulation and Transfer

9.1 **Mutual trust:** In the case of a qualification on the sub-framework, the recognition of credits offered by another system is dependent on the development of a relationship of mutual respect and trust, based on the nature and extent of the quality assurance regimes.

9.2 **Research-based:** The relationship between qualifications for the purpose of *CAT* in the GFETQSF context and between the GFETQSF context and other NQF sub-framework contexts, is determined by research that establishes the degree of overlap or equivalence between related curricula in the respective qualifications that would allow for recognition of learning and/or credit transfer.

9.3 **Specificity:** The recognition of credits for the purpose of *transfer from one qualification to another* is determined by the nature of the qualifications, the relationship between them, the nature, complexity, and extent of the curricula associated with the subjects for which exemption and/or inclusion s required, and the nature of the assessment used.

9.4 **Explicitness:** Umalusi will publish regulations that govern certification.

9.5 **Bilaterality:** Ideally, the recognition of some portion of the qualifications involved (generally subjects) should be bilateral, but there may be conditions

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in which the *recognition occurs in one direction only*. Such decisions are best made by an analysis of the portions to be transferred.

9.6 ***Transparency:*** Rules, regulations, and any register of precedents that informs, influences, or governs decisions taken in respect to CAT must be:

a. valid, fair, reliable and transparent; and
b. publicly available and made known to learners prior to enrolment.

9.7 ***Articulation by design:*** Possibilities for articulation pathways, including within and between NQF sub-frameworks, and between NQF sub-frameworks and the world of work, must be included in the design and purposes of new qualifications and part-qualifications.

9.8 ***Appeals regarding CAT decisions:*** A recognised provider may appeal CAT decisions when credits linked to their NQF-registered qualifications/part-qualifications are not recognised by the providers to which learners seek to transfer. In appeals against CAT decisions such as these:

a. In order to lodge or accept an appeal, both education and training entities involved must be recognised by a QC and, where applicable, registered with the DHET;
b. the entity from which the learner obtained the original credits has the right to lodge an appeal;
c. the entity to which the learner is seeking access must consider and address the appeal;
d. the CAT comparisons that led to the decision to reject the credit transfer must be shared with and explained to the entity lodging the appeal; and
e. failing acceptance of this process and/or failing an agreement, the entities must together consult SAQA and the relevant QC for a final decision.

9.9 ***Supplementarity:*** Where the CAT comparison process finds overlaps of less than 80% between the content and outcomes for which credits have been awarded and the modules/subjects for which CAT is sought, the relevant recognised provider:

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a. may choose not to recognise any accumulated credit and must provide advice and guidance on other learning pathway possibilities for the candidate; or
b. may conduct an RPL process to assess the informal and non-formal knowledge and skills of the applicant that may address the gap; or
c. may require the learner to complete supplementary work before credits are recognised.

10. Responsibilities for the Implementation of Credit Accumulation and Transfer

10.1 As stated in the national CAT policy (SAQA, 2021), the development and implementation of CAT is the joint responsibility of the DHET, the DBE, SAQA, the QCs, education institutions and skills development providers, assessment bodies, recognised professional bodies and workplaces. The specific responsibilities of each contributor are outlined below.

a. Responsibilities of the DBE

i. Provide enabling legislative and planning environments for CAT;
ii. Ensure that CAT principles and opportunities are considered when designing and developing qualifications; and
iii. Ensure the development and implementation at institutional level of policy and criteria for CAT.

b. Responsibilities of Umalusi

i. Adhere to the principles and responsibilities as outlined in SAQA's (2021) Policy and Criteria for CAT, and this policy;
ii. Ensure that CAT principles and opportunities are considered when qualifications are designed and developed in the GFETQSF context;
iii. Develop policy and criteria for CAT in the GFETQSF context that are aligned with SAQA's (2021) Policy and Criteria for CAT;
iv. Develop and share guidelines for all aspects of CAT in the GFETQSF context;

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v. Collaborate with the CHE and the QCTO to ensure that effective CAT takes place;
vi. Determine the maximum number of years allowed to complete a qualification (it is hoped that most qualifications would allow as many years as necessary for adults, bearing in mind that many mature students have difficult life circumstances);
vii. Work with recognised entities in the GFETQSF context to ensure that CAT is implemented consistently, and to ensure that the capacity to do so is developed;
viii. Undertake systematic work on the development of credit matrixes for the GFETQSF;
ix. Initiate and oversee projects within the GFETQSF to strengthen the conceptual understanding of CAT, to build capacity in the use of credit, and to promote good practices where necessary;
x. As and where applicable, to develop links for articulation and progression to promote CAT within the GFETQSF and between the GFETQSF and the other two NQF sub-frameworks by facilitating and encouraging formal articulation agreements between institutions and coordinated quality assurance systems;
xi. Promote the collaborative development of curricula and qualification pathways between various types of providers to promote and enable successful CAT;
xii. Include a mechanism in Umalusi policy to deal with unfair CAT practices;
xiii. Collaborate in national monitoring and mediation processes to advise and alert institutions within their sub-frameworks to potential and actual transgressions related to Umalusi's CAT policy; and
xiv. Actively promote the recognition of workplace-based learning for CAT in collaboration with workplaces.

c. Responsibilities of assessment bodies

i. Adhere to the principles and responsibilities as outlined in this policy; and
ii. Develop and implement a policy on CAT in accordance with the principles and responsibilities outlined in this policy.

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d. Responsibilities of education institutions and skills development providers

i. Adhere to the principles and responsibilities as outlined in this policy;
ii. Develop, promote and implement an institutional CAT policy that is aligned to this policy, SAQA's (2021) Policy and Criteria for CAT, and the DHET's (2017) articulation policy;
iii. Demonstrate through internal and external quality reviews that institutional CAT practices are in keeping with the policies noted in (ii) above;
iv. Where appropriate, establish intra- and inter-institutional partnerships and formal agreements through which vertical, horizontal and diagonal articulation can take place;
v. Where appropriate, undertake collaborative approaches to curriculum development with other providers to advance curriculum alignment, articulation/learning pathways and CAT, taking into consideration the purposes and types of knowledge and competences required to achieve a particular qualification;
vi. Provide career advice services on career pathways and articulation routes;
vii. Establish appropriate appeal mechanisms;
viii. Avoid unfair exclusionary practices related to CAT and establish mechanisms to monitor and deter these;
ix. Set fair and transparent admission criteria that are consistent with national policy;
x. Address the bridging of theory and/or practice components that are identified as weaknesses during admission processes, including through RPL;
xi. Assist learners who seek to transition to the certifying institution, as well as those who need to transition from the institution by making the necessary information available in a manner that enables the learner and does not harm the entity; a balance must be found in providing this information; and
xii. Develop and maintain information management systems that are compatible with the National Learners' Records Database (NLRD) and

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other relevant government information management systems and submit the relevant data to SAQA using effective existing systems.

11. Conclusion

11.1 A powerful and constructive *Credit Accumulation and Transfer* system is essential to deal with the realities facing thousands of South Africans who, have dropped out of school, failed matric or fared poorly in their final examinations, may need to start from scratch. As a QC responsible for the GFETQSF, Umalusi strives to foster credit accumulation and transfer as a means of enhancing access and promoting lifelong learning.

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The General and Further Education and Training Qualifications Sub-framework

General and Further Education and Training Qualifications Sub-framework						
NQF level	**Qualification types**					**Certificates for units of learning**
Level 4	**National Certificate (NC)**					
Designated variants	Senior Certificate *and* National Senior Certificate (Colleges)	National Senior Certificate (NSC)	National Certificate (Vocational) Level 4	National Senior Certificate for Adults (NASCA)	Senior Certificate (as amended in 2014)	Subject certificates towards one or more qualification designated variants
Level 3	**Intermediate Certificate (IC)**					
Designated variants	[NSC – Grade 11]		National Certificate (Vocational) Level 3	Intermediate Certificate of Education		Subject certificates towards one or more qualification designated variants
Level 2	**Elementary Certificate (EC)**					
Designated variants	[NSC – Grade 10]		National Certificate (Vocational) Level 2	Elementary Certificate of Education		Subject certificates towards one or more qualification designated variants
Level 1	**General Certificate (GC)**					
Designated variants	General Certificate of Education (GCE)			General Education and Training Certificate: ABET	General Education and Training Certificate for Adults	Subject (LA) certificates for adult learners

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DEPARTMENT OF TRADE, INDUSTRY AND COMPETITION

NOTICE 1354 OF 2022

INTERNATIONAL TRADE ADMINISTRATION COMMISSION

CORRECTION NOTICE OF INITIATION OF AN INVESTIGATION INTO THE ALLEGED DUMPING OF OTHER FLAT-ROLLED PRODUCTS OF IRON OR NON-ALLOY STEEL, OF A WIDTH OF 600 MM OR MORE, OTHERWISE PLATED OR COATED WITH ZINC (GALVANISED STEEL COIL), OF A THICKNESS OF LESS THAN 0,45 MM ORIGINATING IN OR IMPORTED FROM THE PEOPLE'S REPUBLIC OF CHINA

This notice serves to correct General Notice No.1342 of 2022 published in the Government Gazette No. 47296 on 12 October 2022 with respect to the tariff subheading under which the products are classified.

THE PRODUCTS

The products allegedly dumped are other flat-rolled products of iron or non-alloy steel, of a width of 600 mm or more, otherwise plated or coated with zinc (galvanised steel coil) of a thickness of less than 0,45 mm classifiable under tariff subheading 7210.49.10 originating in or imported from the People's Republic of China.

PROCEDURES AND TIME LIMITS

The Senior Manager: Trade Remedies II, should receive all responses, including non-confidential copies of the responses, not later than 30 days from the date of General Notice No.1342 of 2022 published in the Government Gazette No. 47296 on 12 October 2022 or from the date on which the letter accompanying the relevant questionnaire was received. The said letter shall be deemed to have been received seven days after the day of its dispatch. Fort further information on the full content of this notice, interested parties are advised to study Notice No.1342 of 2022 published in the Government Gazette No. 47296 on 12 October 2022. Enquiries may be directed to the investigating officers, Mr Siphumelele Edwin Mkwanazi at email address:emkwanazi@itac.org.za, Ms Portia Chuma at email address: pchuma@itac.org.za and Ms Portia Mathebula at email address: pmathebula@itac.org.za.

Printed by and obtainable from the Government Printer, Bosman Street, Private Bag X85, Pretoria, 0001
Contact Centre Tel: 012-748 6200. eMail: info.egazette@gpw.gov.za
Publications: Tel: (012) 748 6053, 748 6061, 748 6065

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