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## GOVERNMENT NOTICE

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### SOUTH AFRICAN QUALIFICATIONS AUTHORITY

No. 192

12 March 2010



### SOUTH AFRICAN QUALIFICATIONS AUTHORITY (SAQA)

In accordance with Regulation 24(c) of the National Standards Bodies Regulations of 28 March 1998, the Task Team for

#### FABRICATION AND EXTRACTION

registered by Organising Field 06 – Manufacturing, Engineering and Technology, publishes the following Qualification and Unit Standards for public comment.

This notice contains the titles, fields, sub-fields, NQF levels, credits, and purpose of the Qualification and Unit Standards. The full Qualification and Unit Standards can be accessed via the SAQA web-site at [www.saqqa.org.za](http://www.saqqa.org.za). Copies may also be obtained from the Directorate of Standards Setting and Development at the SAQA offices, SAQA House, 1067 Arcadia Street, Hatfield, Pretoria.

Comment on the Qualification and Unit Standards should reach SAQA at the address below and **no later than 12 April 2010**. All correspondence should be marked **Standards Setting – Task Team for Fabrication and Extraction** and addressed to

The Director: Standards Setting and Development  
SAQA

*Attention: Mr. E. Brown*

Postnet Suite 248

Private Bag X06

Waterkloof

0145

or faxed to 012 – 431-5144

e-mail: [ebrown@saqa.org.za](mailto:ebrown@saqa.org.za)

  

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D. MPHUTHING

ACTING DIRECTOR: STANDARDS SETTING AND DEVELOPMENT



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

### **QUALIFICATION:** **National Certificate: Lamproom Operations**

| SAQA QUAL ID                           |                                               | QUALIFICATION TITLE                       |                         |
|----------------------------------------|-----------------------------------------------|-------------------------------------------|-------------------------|
| 78323                                  |                                               | National Certificate: Lamproom Operations |                         |
| ORIGINATOR                             |                                               | PROVIDER                                  |                         |
| Task Team - Fabrication and Extraction |                                               |                                           |                         |
| QUALIFICATION TYPE                     | FIELD                                         | SUBFIELD                                  |                         |
| National Certificate                   | 6 - Manufacturing, Engineering and Technology | Fabrication and Extraction                |                         |
| ABET BAND                              | MINIMUM CREDITS                               | NQF LEVEL                                 | QUAL CLASS              |
| Undefined                              | 126                                           | Level 3                                   | Regular-Unit Stds Based |

New NQF Level: NQF Level 03

***This qualification does not replace any other qualification and is not replaced by another qualification.***

#### **PURPOSE AND RATIONALE OF THE QUALIFICATION**

Purpose:

This qualification will provide qualifying learners with the necessary skills, understanding and technical knowledge, to competently perform the duties and responsibilities required in the lamproom in the underground mining sector; as well as provide an opportunity for learners to apply appropriate skills in relation to the workplace.

The lampman's technical support is vital to the smooth running of underground mining operations. It covers a wide variety of fields such as portable mine lighting and associated equipment, gas detection instruments and associated equipment, self contained self rescuers, mine specific associated equipment as well as hazard identification and risk assessment in the lamproom environment.

Learners achieving this qualification will be able to understand the role and apply required competencies consistently and effectively in the execution of duties. They will contribute to the mining operation and discipline by effectively adhering to quality and occupational safety requirements.

This qualification will have a positive impact on society through the development of the competencies to effectively manage and control lamproom activities; the application of first line maintenance to lamproom operations and health and safety equipment. It will also improve the Occupational health and safety standards in the mining environment through input into hazard identification programmes.

Learners credited with this qualification will be able to:

- Demonstrate an understanding of Occupational Health, Safety and Environmental standards in the workplace.
- Perform lamp room procedures and maintain equipment in a mining environment.
- Manage activities in a lamp room in the mining environment.

- Select and use lamp room equipment and tools (e.g. portable mine lighting, self contained self rescuers, gas detection instruments, etc).
- Perform basic maintenance on portable mine lighting equipment and gas detection instruments.

**Rationale:**

The South African mining industry recognises Lamproom operations as key competencies, Lamps persons are legally appointed as per the Minerals Act and company requirements. The mining industry regulates quality standards, especially the Lamproom, Occupational Health and Safety standards for efficiency and effectiveness of the industry. Maintenance and management of such standards are key components in Lamproom training and serves to ensure safety in the underground mining environment.

The increasing complexity of South Africa mining has resulted in a greater need for skilled personnel in the management of lamp rooms and lamproom equipment. These factors have been recognised and emphasis has been placed on providing such technical training at all levels within this discipline.

This qualification accommodates learners from mining, safety, environmental control, engineering operations and administration sections. In some cases learners may come from outside the mining industry, however, they would have to become familiar with the lamp room environment, equipment and processes before they can proceed with this qualification.

A typical learning pathway in this field would start with the National Certificate: Occupational Health and Safety NQF Level 2 and proceed to the National Certificate: Lamproom Operations at NQF Level 3. Learners will obtain the theoretical knowledge and practical skills pertinent to lamprooms. The learner, once equipped with the competencies of this qualification will be a recognized Lampman. This qualification is designed to give learners access to demonstrate the competencies in management of lamproom operations and equipment maintenance in the mining and minerals sectors.

Previously learners have been trained and developed on an informal basis and examined by the Department of Minerals and Energy, with little chance of advancement. It also gives recognition for learners to further their skills by entering the lamproom environment with the possibility to articulate to other qualifications in Occupational Health and Safety, Human resources or electrical engineering.

**RECOGNIZE PREVIOUS LEARNING?**

Y

**LEARNING ASSUMED IN PLACE**

- Communication and Mathematical Literacy at NQF Level 2.

**Recognition of Prior Learning:**

This qualification can be obtained by completing all the required unit standards in a structured learning programme, or through Recognition of Prior Learning. The criteria for Recognition of Prior Learning would need to be in line with the MQA's ETQA requirements.

Evidence can be presented in a variety of forms, including international or previous local qualifications, reports, testimonials mentioning functions performed, work records, portfolios, videos of practice and performance records.

All such evidence would be judged according to the general principles of assessment.

**Access to the Qualification:**

Access is open; however it is preferable that learners have completed the General Education and Training Certificate: Mining and Minerals Processes.

**QUALIFICATION RULES****Rules of Combination:**

A minimum of 126 credits is required to complete the qualification. In this qualification, credits are allocated as follows:

**Fundamental:**

- All unit standards totaling 36 credits are compulsory.

**Core:**

- All unit standards totaling 72 credits are compulsory.

**Electives:**

Unit standards totaling a minimum of 18 credits must be completed.

**EXIT LEVEL OUTCOMES**

1. Communicate and solve problems in a lamproom environment.
2. Demonstrate an understanding of Occupational Health, Safety and Environmental standards in the workplace.
3. Perform lamp room operations and basic maintenance.
  - o Range: Basic maintenance refers to maintenance performed by operations personnel not qualified as artisans.
4. Manage lamp room activities.
5. Conduct statutory reporting and collate reports.

**Critical Cross-field Outcomes:**

Critical Cross-field outcomes have been addressed by the Exit Level Outcomes as follows:

While performing operations in a lamproom, qualifying learners are able to:

Identify and solve problems in which response displays that responsible decisions, using critical and creative thinking, have been made by:

- Monitoring operational procedures in a lamproom in compliance with relevant procedures and quality assurance requirements.
- Applying maintenance procedure in a lamproom context.
- Responding to non-conformances in a lamproom environment.
- Responding to emergencies in a lamproom (processes, equipment and building).
- Applying preventative or remedial action in accordance with operating procedures.

The above are evident in the following Exit Level Outcomes:

- Communicate and solve problems in a lamproom environment.
- Demonstrate an understanding of Occupational Health, Safety and Environmental standards in the workplace.
- Perform lamp room operations and basic maintenance.
- Manage lamp room activities.

Work effectively with others as a member of a team, group, organisation or community by:

- Contributing to team goals and achievements by adhering to agreed working methods and processes.
- Contributing to team efficiency by supporting other team members in the lamp room environment.
- Adhering to team protocols, codes of conduct and generally promoting a positive team spirit.
- Coordinating one's work with that of others in the direct surrounding area, internal and external operations.

Organise and manage oneself and one's activities responsibly and effectively by:

- Applying operating instructions to control and respond to lamproom conditions.
- Taking preventive and remedial action to solve operating problems in a lamproom.
- Adhering to relevant operational procedures in a lamproom.

Collect, analyse, organise and critically evaluate information by:

- Collating, interpreting and reporting on lamp room data.
- Understanding and applying routine maintenance requirements.
- Managing records, reports and stock.

Communicate effectively by using mathematical and/or language skills in the modes of oral and/or written presentations by:

- Interpreting, recording and reporting of lamp room data obtained from visual inspections, instrument readings and exception report feedback.
- Completing reports, control sheets, shift handover activities and other process control activities effectively, ensuring that all other team members are aware of critical information.
- Preparing and submitting reports, non-conformance reports and other required documentation.
- Working with modern communications technology such as computer messaging and cellular phones in a lamproom environment.

Use science and technology effectively and critically, showing responsibility towards the environment and health of others by:

- Working according to health and safety regulations; Evident in all Exit Level Outcomes.
- Controlling technologically advanced lamp room equipment according to operating procedures.
- Working and interpreting technologically advanced instrumentation and computer systems, e.g. automation systems.

Demonstrate an understanding of the world as a set of related systems by recognising that problem solving contexts do not exist in isolation by:

- Understanding the impact of upstream, downstream and parallel lamproom systems upon each other and their own role in each context.
- Requesting assistance from other team members and support personnel.

- Assisting other team members and working together with support personnel to investigate and resolve problem areas.
- Adjusting equipment and machinery while taking cognizance of the impact on other processes.

**ASSOCIATED ASSESSMENT CRITERIA**

Associated Assessment Criteria for Exit Level Outcome 1:

- Information related to work tasks is accessed and interpreted from a range of written and oral sources to ensure that work requirements are understood.
- Numeracy skills are applied while performing tasks in relation with the operational context.
- Problems and solutions are recorded and monitored for re-occurrence.

Associated Assessment Criteria for Exit Level Outcome 2:

- Occupational Health, Safety and Environmental policies, procedures and requirements are adhered to at all times as per workplace requirements.
- Occupational Health, Safety and Environmentally related activities are conducted in a lamp room environment according to the Occupational Health, Safety and Environmental requirements.
- Occupational Health, Safety and Environmental conditions are monitored and reported on a continual basis to ensure the safety of persons in the workplace.

Associated Assessment Criteria for Exit Level Outcome 3:

- The operational procedures of a lamp room are understood and explained in terms of the range indicated below:
  - Range: Must include but is not limited to lamp room processes and management.
- The operational procedures are applied in the operational context of a lamp room.
- Operational procedures are monitored and reported on; in line with the needs of a lamproom.
- Maintenance procedures in a lamp room are understood, explained and applied according to standard operating procedures.
- Routine maintenance procedures and operations are understood and applied according to original equipment manufacturer's instructions.

Associated Assessment Criteria for Exit Level Outcome 4:

- Concepts and principles of the activities of a lamproom are understood and explained in accordance with the work context.
- Lamproom tasks are performed in accordance with the needs and requirements of the organisation.
- Lamproom procedures are supervised in accordance with legal and site specific requirements.
- Health and Safety requirements are understood and applied in accordance with legal requirements.
- Financial planning and cost control in a lamproom operation are understood and applied.

Associated Assessment Criteria for Exit Level Outcome 5:

- Reporting of faulty/damaged/abused/missing equipment and replacement of equipment are explained and applied in accordance with statutory requirements.
- The reporting in relation to equipment not taken or returned are explained and adhered to in accordance with statutory requirements.
- The reporting in relation to equipment not tested for functionality are explained and adhered to in accordance with statutory requirements.
- Shift clearance procedures are explained and the necessary reports completed in accordance with specified (legal and site-specific) requirements.

**Integrated Assessment:**

Integrated assessment at the level of the qualification provides an opportunity for learners to show they are able to integrate concepts, actions and ideas achieved across a range of unit standards and contexts.

Integrated assessment must evaluate the quality of observable performance as well as the thinking behind the performance, and must be based on a summative assessment guide. The guide will spell out how the assessor will assess different aspects of the performance and will include:

- Observing the learner at work (both in the primary activity as well as other interactions).
- Asking questions and initiating short discussions to test understanding.
- Looking at records and reports in the portfolio and reviewing previous assessments.

In some cases interference will be necessary to determine competence depending on the nature and context within which performance takes place.

It is necessary to ensure that the fundamental part of the qualification is also targeted to ensure that while the competence may have been achieved in a particular context, learners are able to apply it in a range of other contexts and for future learning. The assessment should also ensure that all the critical cross-field outcomes have been achieved.

The learner may choose in which language s/he wants to be assessed. This should be established as part of a process of preparing the learner for assessment and familiarising the learner with the approach being taken.

While this is primarily a workplace-based qualification, evidence from other areas of endeavour may be introduced if pertinent to any of the exit-level outcomes. The assessment process should cover both the explicit tasks required for the qualification as well as the understanding of the concepts and principles that underpin the activities associated with processing diamonds.

**INTERNATIONAL COMPARABILITY**

The competencies required for the proposed National Certificate: Lamproom Operations Level 3 qualification were compared to international qualifications to ensure that the qualification structure and unit standards are comparable in terms of level, scope of qualification and competencies covered.

A study was conducted for information pertaining to Mining and related Qualifications, Courses and Programmes from several countries around the world such as:

- Canada.
- United Kingdom.
- India.
- Australia.
- New Zealand.
- SADC countries such as Zambia and Botswana.

Lamprooms, also known as Lamp Cabins or Lamp Stations, are defined as:

- Rooms or buildings at the surface of a mine for charging, servicing and issuing all cap, hand and flame safety lamps.
- Fixed places in the intake airway of a coal mine where the miners' safety lamps are externally examined by a deputy before the workers proceed to their working places. In a safety lamp

mine, the lamp station is the only place where flame safety lamps may be opened and re-lighted.

- Locations in gaseous mines where safety lamps are opened, cleaned and refilled or charged by a qualified attendant.

We were not able to find a model similar to the proposed National Certificate: Lamproom Operation Level 3, i.e. a unit standard based qualification in a vocational environment; even in Australia and New Zealand which have systems very similar to ours (i.e. unit standards based qualifications).

The only reference to a lamproom that could be found was in an Australian Qualification, where lamproom Operations is listed as an elective unit of competency (unit standard).

The content of the unit found is as follows:

- Plan and prepare for operations:
  - Access, interpret and apply compliance documentation relevant to the work activity.
  - Resolve coordination activities with others at the site prior to commencement of and during the work activity.
  - Obtain and prepare materials and resources required for work in accordance with the work requirements and relevant manufacturer and/or site requirements.
- Operate and maintain lamp cabin:
  - Maintain safety and personal equipment in accordance with site requirements and safe working practices.
  - Maintain records/list/logs in accordance with site requirements.
  - Lamp cabin equipment is monitored and faults are identified and responded to in accordance with site requirements.
  - Perform work according to target outcomes.
  - Dispose of hazardous and environmentally sensitive waste products in accordance with site procedures.
  - Complete general maintenance and housekeeping to maintain the lamp cabin in an operational condition.

The content of the Australian unit standard correlates well with the core lamproom and related unit standards found in the proposed National Certificate: Lamproom Operation:

- Demonstrate knowledge and understanding of lamprooms and lamproom equipment.
- Demonstrate the ability to issue and receive lamproom equipment.
- Demonstrate knowledge and understanding in lamproom procedures.
- Demonstrate knowledge and understanding of generic repairs on lamproom equipment.
- Demonstrate understanding and application of legal requirements regarding Gas detection instruments.
- Manage a lamproom in the mining environment.
- Demonstrate knowledge, understanding and application of the legal requirements pertaining to lamp room operations.
- Demonstrate knowledge, understanding and application of equipment control within a lamp room.

Despite the absence of a specific qualification, an Australian learner electing the Lam Cabin Operations unit of competence will be able to structure a qualification (Certificate II in Underground Coal Mining) which is very similar in content to the proposed National Certificate: Lamproom Operations.

Core (Mandatory) Units:

- RIICOM201A: Communicate in the workplace.

- RIERR203A: Escape from hazardous situation unaided.
- RIOHS201A: Work safely and follow OHS policies and procedures.
- RIIGOV201A: Comply with site work processes/procedures.
- RIIRIS201A: Conduct local risk control.

#### Elective Units:

- RIERR205A: Apply initial response First Aid.
- RIIMCU206A: Install, maintain and recover gas drainage systems.
- RIIMCU216A: Maintain lamp cabin operations.
- RIIMCU402A: Apply spontaneous combustion management measures.

#### SADC Countries:

Discussions with a senior consultant, a former Mining Engineer and Mine Manager in several SADC countries, confirmed that people working in lamp rooms would have been trained informally at operational level and would not have any qualification other than an in-company certificate.

This is in keeping with the practice internationally, where statutory compliance is still determined by means of examinations of competence over a broad spectrum of topics, and not as specific as entertained by qualifications such as the proposed National Certificate: Lamproom Operations.

#### Conclusions:

While we have not been able to find a course or programme structured similarly to the National Certificate: Lamproom Operations, the proposed qualification should be seen in the context of the drive to maximise commitment and compliance to Occupational Health and Safety in the South African mining industry.

Mining workers who have the necessary competence (knowledge, skill and experience) will thus be able to specialise in lamp room Operations and thereby render a significant service in a critical skill.

#### **ARTICULATION OPTIONS**

This qualification articulates vertically with the following qualification:

- ID 50063: Further Education and Training Certificate: Occupational Hygiene and Safety, NQF Level 4.

This qualification articulates horizontally with the following qualification:

- ID 50062: National Certificate: Occupational Hygiene and Safety, NQF Level 3.

#### **MODERATION OPTIONS**

- Anyone assessing a learner or moderating the assessment of a learner against the qualification must be registered as an assessor with the relevant Education, Training, Quality, Assurance (ETQA) Body, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.
- Any institution offering learning that will enable the achievement of this qualification must be accredited as a provider with the relevant Education, Training, Quality, Assurance (ETQA) Body, or with an ETQA that has a Memorandum of Understanding with the relevant ETQA.

- Assessment and moderation of assessment will be overseen by the relevant Education, Training, Quality, Assurance (ETQA) Body, or by an ETQA that has a Memorandum of Understanding with the relevant ETQA, according to the ETQA's policies and guidelines for assessment and moderation.
- Moderation must include both internal and external moderation of assessments, unless ETQA policies specify otherwise. Moderation should also encompass achievement of the competence described in the associated unit standards.
- Anyone wishing to be assessed against this qualification may apply to be assessed by any assessment agency, assessor or provider institution that is accredited by the relevant ETQA.

### CRITERIA FOR THE REGISTRATION OF ASSESSORS

Assessors should be in possession of:

- An appropriate qualification above the level of the qualification and preferably relevant workplace practical experience.
- Registration as an assessor with the relevant ETQA.

### NOTES

N/A

### UNIT STANDARDS

|             | ID     | UNIT STANDARD TITLE                                                                                                                                       | LEVEL   | CREDITS |
|-------------|--------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| Fundamental | 119472 | Accommodate audience and context needs in oral/signed communication                                                                                       | Level 3 | 5       |
| Fundamental | 9010   | Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations | Level 3 | 2       |
| Fundamental | 9013   | Describe, apply, analyse and calculate shape and motion in 2-and 3-dimensional space in different contexts                                                | Level 3 | 4       |
| Fundamental | 119457 | Interpret and use information from texts                                                                                                                  | Level 3 | 5       |
| Fundamental | 9012   | Investigate life and work related problems using data and probabilities                                                                                   | Level 3 | 5       |
| Fundamental | 119467 | Use language and communication in occupational learning programmes                                                                                        | Level 3 | 5       |
| Fundamental | 7456   | Use mathematics to investigate and monitor the financial aspects of personal, business and national issues                                                | Level 3 | 5       |
| Fundamental | 119465 | Write/present/sign texts for a range of communicative contexts                                                                                            | Level 3 | 5       |
| Core        | 376466 | Apply lamproom procedures                                                                                                                                 | Level 2 | 2       |
| Core        | 246575 | Apply safety concepts to a gas installation site                                                                                                          | Level 2 | 3       |
| Core        | 376462 | Demonstrate an understanding of lamprooms and lamproom equipment                                                                                          | Level 2 | 3       |
| Core        | 376460 | Dispatch and receive lamproom equipment                                                                                                                   | Level 2 | 3       |
| Core        | 244073 | Receive, handle and store hazardous chemicals safely                                                                                                      | Level 2 | 5       |
| Core        | 113852 | Apply occupational health, safety and environmental principles                                                                                            | Level 3 | 10      |
| Core        | 376467 | Apply the legal requirements regarding gas detection instruments                                                                                          | Level 3 | 2       |
| Core        | 120330 | Conduct a continuous risk assessment in a workplace                                                                                                       | Level 3 | 4       |
| Core        | 244422 | Demonstrate knowledge of the most common harmful gases and vapours                                                                                        | Level 3 | 4       |
| Core        | 116714 | Lead a team, plan, allocate and assess their work                                                                                                         | Level 3 | 4       |
| Core        | 376464 | Perform generic repairs on lamp room equipment.                                                                                                           | Level 3 | 3       |
| Core        | 117877 | Perform one-to-one training on the job                                                                                                                    | Level 3 | 4       |
| Core        | 376463 | Supervise activities in a lamproom in the mining environment                                                                                              | Level 3 | 6       |
| Core        | 376465 | Apply effective equipment control within a lamproom                                                                                                       | Level 4 | 3       |
| Core        | 376461 | Apply legal requirements pertaining to lamproom operations                                                                                                | Level 4 | 4       |

|          | ID     | UNIT STANDARD TITLE                                                                     | LEVEL   | CREDITS |
|----------|--------|-----------------------------------------------------------------------------------------|---------|---------|
| Core     | 10981  | Supervise work unit to achieve work unit objectives (individuals and teams)             | Level 4 | 12      |
| Elective | 117416 | Comply with good housekeeping practices                                                 | Level 2 | 4       |
| Elective | 13961  | Demonstrate Knowledge and Use of Hand Operated Fire Fighting Equipment                  | Level 2 | 4       |
| Elective | 120496 | Provide risk-based primary emergency care/first aid in the workplace                    | Level 2 | 5       |
| Elective | 264375 | Adhere to disciplinary code and grievance procedures                                    | Level 3 | 3       |
| Elective | 113836 | Apply basic computer technology                                                         | Level 3 | 11      |
| Elective | 13912  | Apply knowledge of self and team in order to develop a plan to enhance team performance | Level 3 | 5       |
| Elective | 253656 | Communicate with clients                                                                | Level 3 | 3       |
| Elective | 252170 | Apply the principles of customer care in client interactions                            | Level 4 | 5       |

# **LEARNING PROGRAMMES RECORDED AGAINST THIS QUALIFICATION**

**None**



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Dispatch and receive lamproom equipment***

| <b>SAQA US ID</b>                             |                           | <b>UNIT STANDARD TITLE</b>              |                |
|-----------------------------------------------|---------------------------|-----------------------------------------|----------------|
| 376460                                        |                           | Dispatch and receive lamproom equipment |                |
| <b>ORIGINATOR</b>                             |                           | <b>PROVIDER</b>                         |                |
| Task Team - Fabrication and Extraction        |                           |                                         |                |
| <b>FIELD</b>                                  |                           | <b>SUBFIELD</b>                         |                |
| 6 - Manufacturing, Engineering and Technology |                           | Fabrication and Extraction              |                |
| <b>ABET BAND</b>                              | <b>UNIT STANDARD TYPE</b> | <b>NQF LEVEL</b>                        | <b>CREDITS</b> |
| Undefined                                     | Regular                   | Level 2                                 | 3              |

New NQF Level: NQF Level 02

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Demonstrate knowledge and understanding of lamproom equipment.

**SPECIFIC OUTCOME 2**

Dispatch lamproom equipment.

**SPECIFIC OUTCOME 3**

Receive lamproom equipment.

**SPECIFIC OUTCOME 4**

Report and apply record keeping procedures.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

|      | <b>ID</b> | <b>QUALIFICATION TITLE</b>                | <b>LEVEL</b> |
|------|-----------|-------------------------------------------|--------------|
| Core | 78323     | National Certificate: Lamproom Operations | Level 3      |



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Apply legal requirements pertaining to lamproom operations***

|                                               |                    |                                                            |         |
|-----------------------------------------------|--------------------|------------------------------------------------------------|---------|
| SAQA US ID                                    |                    | UNIT STANDARD TITLE                                        |         |
| 376461                                        |                    | Apply legal requirements pertaining to lamproom operations |         |
| ORIGINATOR                                    |                    | PROVIDER                                                   |         |
| Task Team - Fabrication and Extraction        |                    |                                                            |         |
| FIELD                                         |                    | SUBFIELD                                                   |         |
| 6 - Manufacturing, Engineering and Technology |                    | Fabrication and Extraction                                 |         |
| ABET BAND                                     | UNIT STANDARD TYPE | NQF LEVEL                                                  | CREDITS |
| Undefined                                     | Regular            | Level 4                                                    | 4       |

New NQF Level: NQF Level 04

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Explain the appointment of the Lampman.

**SPECIFIC OUTCOME 2**

Apply portable mine lighting in accordance with legal requirements.

**SPECIFIC OUTCOME 3**

Explain and apply Self Contained Self Rescuer (SCSR) requirements in accordance with legal and site specific requirements.

**SPECIFIC OUTCOME 4**

Explain and apply gas detection instrumentation requirements in accordance with legal and site specific requirements.

**SPECIFIC OUTCOME 5**

Discuss and apply contraband procedures in accordance with legal requirements.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

|      | ID    | QUALIFICATION TITLE                       | LEVEL   |
|------|-------|-------------------------------------------|---------|
| Core | 78323 | National Certificate: Lamproom Operations | Level 3 |



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Demonstrate an understanding of lamprooms and lamproom equipment***

| SAQA US ID                                    |                    | UNIT STANDARD TITLE                                              |         |
|-----------------------------------------------|--------------------|------------------------------------------------------------------|---------|
| 376462                                        |                    | Demonstrate an understanding of lamprooms and lamproom equipment |         |
| ORIGINATOR                                    |                    | PROVIDER                                                         |         |
| Task Team - Fabrication and Extraction        |                    |                                                                  |         |
| FIELD                                         |                    | SUBFIELD                                                         |         |
| 6 - Manufacturing, Engineering and Technology |                    | Fabrication and Extraction                                       |         |
| ABET BAND                                     | UNIT STANDARD TYPE | NQF LEVEL                                                        | CREDITS |
| Undefined                                     | Regular            | Level 2                                                          | 3       |

New NQF Level: NQF Level 02

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Explain the role of the lamproom designated area in the mine environment.

**SPECIFIC OUTCOME 2**

Demonstrate knowledge and understanding of lamproom types.

**SPECIFIC OUTCOME 3**

Identify and describe the equipment used in the lamproom.

**SPECIFIC OUTCOME 4**

Demonstrate knowledge and understanding of Occupational Health and Safety in lamprooms.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

|      | ID    | QUALIFICATION TITLE                       | LEVEL   |
|------|-------|-------------------------------------------|---------|
| Core | 78323 | National Certificate: Lamproom Operations | Level 3 |



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Supervise activities in a lamproom in the mining environment***

|                                               |                                                              |                            |                |
|-----------------------------------------------|--------------------------------------------------------------|----------------------------|----------------|
| <b>SAQA US ID</b>                             | <b>UNIT STANDARD TITLE</b>                                   |                            |                |
| 376463                                        | Supervise activities in a lamproom in the mining environment |                            |                |
| <b>ORIGINATOR</b>                             |                                                              | <b>PROVIDER</b>            |                |
| Task Team - Fabrication and Extraction        |                                                              |                            |                |
| <b>FIELD</b>                                  |                                                              | <b>SUBFIELD</b>            |                |
| 6 - Manufacturing, Engineering and Technology |                                                              | Fabrication and Extraction |                |
| <b>ABET BAND</b>                              | <b>UNIT STANDARD TYPE</b>                                    | <b>NQF LEVEL</b>           | <b>CREDITS</b> |
| Undefined                                     | Regular                                                      | Level 3                    | 6              |

New NQF Level: NQF Level 03

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Apply quality during lamproom administration.

**SPECIFIC OUTCOME 2**

Apply Occupational Health & Safety principles in accordance with legal requirements.

**SPECIFIC OUTCOME 3**

Supervise lamproom procedures in accordance with legal and site specific requirements.

**SPECIFIC OUTCOME 4**

Ensure effective financial planning and cost control in a lamproom environment.

**SPECIFIC OUTCOME 5**

Statutory reporting, report writing and record keeping.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

|      | <b>ID</b> | <b>QUALIFICATION TITLE</b>                | <b>LEVEL</b> |
|------|-----------|-------------------------------------------|--------------|
| Core | 78323     | National Certificate: Lamproom Operations | Level 3      |



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

## UNIT STANDARD:

*Perform generic repairs on lamp room equipment*

| SAQA US ID                                    | UNIT STANDARD TITLE                            |           |         |
|-----------------------------------------------|------------------------------------------------|-----------|---------|
| 376464                                        | Perform generic repairs on lamp room equipment |           |         |
| ORIGINATOR                                    | PROVIDER                                       |           |         |
| Task Team - Fabrication and Extraction        |                                                |           |         |
| FIELD                                         | SUBFIELD                                       |           |         |
| 6 - Manufacturing, Engineering and Technology | Fabrication and Extraction                     |           |         |
| ABET BAND                                     | UNIT STANDARD TYPE                             | NQF LEVEL | CREDITS |
| Undefined                                     | Regular                                        | Level 3   | 3       |

New NQF Level: NQF Level 03

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Demonstrate an understanding of the fundamentals of electricity.

**SPECIFIC OUTCOME 2**

Conduct repairs on the charging point on a charging rack.

**SPECIFIC OUTCOME 3**

Conduct repairs on portable mine lighting.

**SPECIFIC OUTCOME 4**

Conduct inspections and repairs on self contained self-rescuers (SCSR).

**SPECIFIC OUTCOME 5**

Demonstrate an understanding of the storage requirements in a lamp room.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

|      | ID    | QUALIFICATION TITLE                       | LEVEL   |
|------|-------|-------------------------------------------|---------|
| Core | 78323 | National Certificate: Lamproom Operations | Level 3 |



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Apply effective equipment control within a lamproom***

|                                               |                                                     |                            |                |
|-----------------------------------------------|-----------------------------------------------------|----------------------------|----------------|
| <b>SAQA US ID</b>                             | <b>UNIT STANDARD TITLE</b>                          |                            |                |
| 376465                                        | Apply effective equipment control within a lamproom |                            |                |
| <b>ORIGINATOR</b>                             |                                                     | <b>PROVIDER</b>            |                |
| Task Team - Fabrication and Extraction        |                                                     |                            |                |
| <b>FIELD</b>                                  |                                                     | <b>SUBFIELD</b>            |                |
| 6 - Manufacturing, Engineering and Technology |                                                     | Fabrication and Extraction |                |
| <b>ABET BAND</b>                              | <b>UNIT STANDARD TYPE</b>                           | <b>NQF LEVEL</b>           | <b>CREDITS</b> |
| Undefined                                     | Regular                                             | Level 4                    | 3              |

New NQF Level: NQF Level 04

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Explain the distribution of equipment in accordance with legal and site specific requirements.

**SPECIFIC OUTCOME 2**

Explain the appropriate procedures with relation to redundant stock in accordance with legal and site specific requirements.

**SPECIFIC OUTCOME 3**

Apply recordkeeping in accordance with legal and site specific requirements.

**SPECIFIC OUTCOME 4**

Apply Occupational Health, Safety and environment principles in accordance with legal and site specific requirements.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

| ID         | QUALIFICATION TITLE                       | LEVEL   |
|------------|-------------------------------------------|---------|
| Core 78323 | National Certificate: Lamproom Operations | Level 3 |



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Apply lamproom procedures***

|                                               |                            |                            |                |
|-----------------------------------------------|----------------------------|----------------------------|----------------|
| <b>SAQA US ID</b>                             | <b>UNIT STANDARD TITLE</b> |                            |                |
| 376466                                        | Apply lamproom procedures  |                            |                |
| <b>ORIGINATOR</b>                             |                            | <b>PROVIDER</b>            |                |
| Task Team - Fabrication and Extraction        |                            |                            |                |
| <b>FIELD</b>                                  |                            | <b>SUBFIELD</b>            |                |
| 6 - Manufacturing, Engineering and Technology |                            | Fabrication and Extraction |                |
| <b>ABET BAND</b>                              | <b>UNIT STANDARD TYPE</b>  | <b>NQF LEVEL</b>           | <b>CREDITS</b> |
| Undefined                                     | Regular                    | Level 2                    | 2              |

New NQF Level: NQF Level 02

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Apply hospitalisation procedures.

**SPECIFIC OUTCOME 2**

Apply burn down procedures.

**SPECIFIC OUTCOME 3**

Apply the procedures pertaining to asset tracking.

**SPECIFIC OUTCOME 4**

Demonstrate an understanding of statutory record keeping.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

|      | <b>ID</b> | <b>QUALIFICATION TITLE</b>                | <b>LEVEL</b> |
|------|-----------|-------------------------------------------|--------------|
| Core | 78323     | National Certificate: Lamproom Operations | Level 3      |



## SOUTH AFRICAN QUALIFICATIONS AUTHORITY

**UNIT STANDARD:*****Apply the legal requirements regarding gas detection instruments***

|                                               |                    |                                                                  |         |
|-----------------------------------------------|--------------------|------------------------------------------------------------------|---------|
| SAQA US ID                                    |                    | UNIT STANDARD TITLE                                              |         |
| 376467                                        |                    | Apply the legal requirements regarding gas detection instruments |         |
| ORIGINATOR                                    |                    | PROVIDER                                                         |         |
| Task Team - Fabrication and Extraction        |                    |                                                                  |         |
| FIELD                                         |                    | SUBFIELD                                                         |         |
| 6 - Manufacturing, Engineering and Technology |                    | Fabrication and Extraction                                       |         |
| ABET BAND                                     | UNIT STANDARD TYPE | NQF LEVEL                                                        | CREDITS |
| Undefined                                     | Regular            | Level 3                                                          | 2       |

New NQF Level: NQF Level 03

***This unit standard does not replace any other unit standard and is not replaced by another unit standard.***

**SPECIFIC OUTCOME 1**

Apply record keeping for gas detection equipment and installations in accordance with legal requirements.

**SPECIFIC OUTCOME 2**

Demonstrate an understanding of hazards and risks associated with the gas detection equipment and installations.

**SPECIFIC OUTCOME 3**

Apply gas detection equipment management and control in accordance with legal requirements.

**SPECIFIC OUTCOME 4**

Receive gas detection Equipment.

**SPECIFIC OUTCOME 5**

Guide users in the correct testing procedures and application of gas detection equipment.

**SPECIFIC OUTCOME 6**

Reporting and report writing are done as per statutory and site specific requirements.

**QUALIFICATIONS UTILISING THIS UNIT STANDARD**

| ID         | QUALIFICATION TITLE                       | LEVEL   |
|------------|-------------------------------------------|---------|
| Core 78323 | National Certificate: Lamproom Operations | Level 3 |