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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

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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?**

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**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.