

## NATIONAL CERTIFICATE: OCCUPATIONAL SAFETY, HYGIENE AND ENVIRONMENT (NQF LEVEL 2)

**Introduction:** This qualification enables learners to identify and evaluate occupational safety, hygiene and environmental factors, in occupational environments, which may have a detrimental effect on the health and safety of learners in such environments. Learners credited with this qualification are able to perform essential measurements and functions that promote a culture of health and safety in occupational environments. The qualification is designed to be flexible and accessible.

**Minimum of 10 learners,  
Maximum of 15 learners per  
Learnership**

**SAQA unit standard ID number – 74269**

### Target group:

All relevant production employees, artisans, or, as required per production needs, without previous certification

### Certification:

- Theoretical assessments = 80% pass rate
- Practical assessments = Competent or Not Yet Competent
- 2 re-writes allowed per module

### Duration:

1 Year  
(260 Days)

### Entry Level Requirements:

Minimum Literacy and Numeracy  
ABET 4 or NQF 2 or RPL, Grade 9

**If competent a National certificate will be issued by  
the relevant Seta.**

## COURSE OUTLINE

### FUNDAMENTAL MODULES

- Demonstrate an understanding of fundamental concepts and principles in the natural sciences
- Demonstrate an understanding of the concept of science
- Access and use information from texts
- Apply basic knowledge of statistics and probability in order to investigate life and work related problems
- Demonstrate understanding of rational and irrational numbers and number systems
- Identify, describe, compare, classify, explore shape and motion in 2-and 3-dimensional shapes in different contexts
- Maintain and adapt oral communication
- Operate a personal computer system
- Use language and communication in occupational programs
- Use mathematics to investigate and monitor the financial aspect of personal and community life
- Use of personal computer operating system
- Work with a wide range of patterns and functions and solve problems
- Write from a defined context

### CORE MODULES

- Apply basic fire fighting techniques
- Demonstrate an understanding of sexuality and sexually transmitted infections including HIV/AIDS
- Demonstrate knowledge of basic Health & Safety principles in & around workplace
- Issue and retrieve personal monitoring equipment
- Show, explain, discuss and analyze the relationship between society and natural environment
- Address workplace hazards and risks
- Apply safety, health and environmental principles and procedures in a workplace

- Conduct a preliminary incident investigation into workplace health, safety and environmental incidents
- Conduct safety and health representation activities
- Demonstrate basic knowledge and understanding of emergency preparedness and response
- Determine wet and dry bulb temperature by means of whirling hygrometer and take appropriate action
- Identify, locate and record environmental elements using a geographical positioning system (GPS)
- Measure and record the concentration of flammable and noxious gases and vapors and take appropriate action
- Monitor compliance to safety, health and environmental requirements in a workplace
- Participate in the development, implementation and evaluation of a safety, health and environmental management programme in the workplace
- Participate in the establishment, implementation and monitoring of a health and safety agreement

### **ELECTIVE MODULES**

- Apply primary emergency life support
- Carry out basic first aid treatment in the workplace
- Demonstrate basic occupational health and knowledge pertaining to the principles of handling of materials in a workplace
- Completion of Compensation Commissioner documentation for Occupational Injuries and Diseases
- Examine refuge bays to ensure they are life sustainable
- Explain the functional aspects of the human anatomy in the use of primary emergency care terminology
- Perform a vision-screening test in the working place
- Analyze absenteeism related to occupational health/medical related conditions in the work place
- Demonstrate the interpretation of vital signs when providing primary emergency care of fist aid
- Perform vital signs in the working place
- Provide primary emergency care for bleeding and wounds
- Provide primary emergency life support for fractures and dislocations
- Provision of primary emergency care intervention for shock, unconsciousness and fainting in the working place

### **SHE PRINCIPLES AND THEORY**

- Emergency Procedure
- Isolation Procedure
- Life Preserving Rules
- One Page Standards
- Fatal Risk Control Protocols
- Risk Assessment
- Red Card & IMS System
- Plant Induction
- Environmental & Quality Induction

### **LOPT – (Lifting Operator Training)**

- Forklift Training
- Overhead Crane
- Front End Loader

### **FIRST LINE MAINTENANCE**

#### **Basic Electricity:**

- Electrical Safety
- Protection Equipment
- Electrical components

**Basic Fitting:**

- Basic Measuring
- Hand Tools
- Identify and use different lubricants and lubricant equipment
- Fasteners
- Hand skills - fabrication of work pieces
- Identify, maintain and install valves, traps and strainers

**Basic Boiler making:**

- Gas Cutting
- Arc Welding
- Power tools
- Basic Rigging & Slings

**Process Related Production (TAPPING)**

- Tap the Furnace
- Housekeeping

**MINING TRAINING**

- Make a safe working place by means of barring
- Follow Basic Health and Safety practices underground
- Install a set of rails in an underground workplace
- Extend tracks by means of jump sets and sliding rails
- Charge holes with cartridge explosives and accessories
- Transport material and equipment by means of a mono rope winch
- Install and remove pipes and accessories
- Install a dust allaying device
- Install and remove ventilation columns and accessories
- Hazards and Safety
- Identify and deal with rock strata conditions pertaining to installation and maintenance of support and the removal of temporary support within underground workplace.
- Support an underground working place by means of stick support
- Install a blasting barricade

<b>166 Credits</b>	<b>Days</b>
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