

**Domain**

**RIGGING**

**Unit ID: 964**

**Title:**

**Pilot materials and equipment in a shaft**

**Level: 3**

**Credits:2**

### **Purpose**

This unit standard specifies the competencies required to pilot materials and equipment in a shaft. It includes explaining the factors critical to piloting material and equipment in a shaft, preparing to pilot the material and equipment, piloting the material and equipment, clearing the shaft, and preparing for operation and/or production. This unit standard is intended for those who work in lifting machine operations environment.

### **Special Notes**

1. Entry information:  
Prerequisite:
  - 937 - *Apply safety rules and regulations in lifting machine operations* or demonstrated equivalent knowledge and skills.
2. This unit standard has been designed as part of a progression. It is one of a series of unit standards for learners in the mechanical handling or related engineering environment. The credits allocated to this unit standard also assume that a learner has already learned to lift and move loads, use relevant tools, use oxy-acetylene equipment and shaft slinging procedures.
3. Assessment evidence may be collected from a real workplace, or an appropriate simulated realistic environment in which lifting machine operations are carried out.
4. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' specifications, guidelines and instructions.
5. Regulations and legislation relevant to this unit standard include the following:
  - Labour Act, No. 11, 2007
  - Regulations relating to the Health and Safety of employees at work, 1997 and all subsequent amendment.

### **Quality Assurance Requirements**

This unit standard and others within this subfield may be awarded by institutions which meet the accreditation requirements set by the Namibia Qualifications Authority and the Namibia Training Authority and which comply with the national assessment and moderation requirements. Details of specific accreditation requirements and the national assessment arrangements are available from the Namibia Qualifications Authority and the Namibia Training Authority on [www.nta.com.na](http://www.nta.com.na).

## **Elements and Performance Criteria**

### **Element 1: Explain the factors critical to piloting material and equipment in a shaft**

#### **Range**

Explanation of the importance of piloting material and equipment may include but are not limited to injury to persons, damage to equipment, loss of production time through breakdowns and increased costs.

#### **Performance Criteria**

- 1.1 The explanation of the principle of piloting material and equipment in a shaft is given in line with specified requirements.
- 1.2 The explanation of the importance of piloting material and equipment in a shaft to achieve healthy, safe production requirements is given in line with specified requirements.
- 1.3 The explanation lists the possible critical workplace hazards that may be encountered while piloting material and equipment in a shaft in a particular context is given. The explanation also describes the risks associated with and the factors contributing to each workplace hazard.
- 1.4 The explanation lists the possible critical work related hazards that may be encountered while piloting material and equipment in a shaft in a particular context is given.

### **Element 2: Prepare to pilot the material and equipment**

#### **Range**

Consequences may include but are not limited to permission, personal protective equipment, tools, material and equipment, workplace examination, workplace hazards, identifying the compartments and lock out adjacent winding plant and make safe.

#### **Performance Criteria**

- 2.1 Permission is obtained and the relevant logbooks are signed in line with specified requirements.
- 2.2 The required personal protective equipment is selected, examined and used in a way that is consistent with its purpose, design and specified requirements. Personal protective equipment is used to ensure the safety of persons and equipment.
- 2.3 Tools, material and equipment are selected, examined and transported in line with specified requirements.
- 2.4 The workplace is examined in line with specified requirements. Workplace hazards are dealt with in line with specified requirements.

- 2.5 The compartments, in which the piloting is to be conducted, are identified in line with specified requirements.
- 2.6 The adjacent winding plant not being used for piloting is locked out and made safe, in line with specified requirements and current accepted best practice.
- 2.7 The consequences for health, safety and production of not preparing to pilot material in line with specified requirements, and current legislation are explained.

### **Element 3: Pilot the material and equipment**

#### **Performance Criteria**

- 3.1 The piloting is conducted in line with current accepted best practice.
- 3.2 Interpersonal interaction is positive, consistent with specified requirements and promotes effective teamwork.
- 3.3 The tools and equipment are used in line with manufacturers' design and without injury to self and others.
- 3.4 The consequences for health, safety and production of not conducting the piloting process in line with specified requirements, and current legislation are explained.

### **Element 4: Clear the shaft, and prepare for operation and production**

#### **Range**

Consequences may include but are not limited to testing preparation, testing, tools, material and equipment, good housekeeping and reporting.

#### **Performance Criteria**

- 4.1 The shaft is prepared for testing purposes and the logbooks are cleared in line with specified requirements.
- 4.2 The shaft is tested to determine if it is functioning in line with specified requirements.
- 4.3 Tools, material and equipment selected are dealt with in line with specified requirements.
- 4.4 The workplace is cleaned and free from hazards in line with specified requirements and good housekeeping practices.
- 4.5 The report on work performed complies with specified requirements for format, content, accuracy and distribution. The report is delivered within the agreed time.

- 4.6 The consequences for health, safety and production of not testing the shaft in line with specified requirements, and current legislation are explained.

### **Registration Data**

<b>Subfield:</b>	Lifting, Shifting and Secure Loads
<b>Date first registered:</b>	27 September 2012
<b>Date this version registered:</b>	27 September 2012
<b>Anticipated review:</b>	2015
<b>Body responsible for review:</b>	Namibia Training Authority