

Domain	RIGGING	Unit ID: 966
Title:	Perform a lifting task using a floating method	
Level: 3		Credits: 8

Purpose

This unit standard specifies the competencies required to perform a lifting task using a floating method. It includes identifying, discussing and explaining the use of floating methods, planning and preparing to lift and float the load, Lifting and floating the load and maintaining, caring and storing equipment. This unit standard is intended for those who work as general lifting machine operators.

Special Notes

1. Entry information:
Prerequisite:
 - *937 - Apply safety rules and regulations in lifting machine operations or demonstrated equivalent knowledge and skills.*
2. For the purpose of learning and assessment floating methods include the use of lifting machinery and equipment (chain blocks; lever hoists; air hoists; winches; derricks, slings, rope, shackles, eye bolts, spreader and equalising beams, clamps, pulley systems, pull lifts, jacks, sliding shoes, rollers, tirsors) and may include the use of various types of cranes.
3. Environment contexts under which this unit standards is used include but are not limited to:
 - Manufacturing and engineering (Metals, Plastics, Tyre and Rubber, Electrical Power Generation, Automotive Manufacturing).
 - Chemical and Petrochemical.
 - Mining.
 - Transport (Maritime, Road, Rail and Aviation).
 - Civil Engineering and Construction.
 - Food and Beverages.
 - Other engineering-related industry sectors.
4. Assessment evidence may be collected from a real workplace, or an appropriate simulated realistic environment in which lifting machine operations are carried out.

5. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' specifications, guidelines and instructions.
6. 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.

Elements and Performance Criteria

Element 1: Identify, discuss and explain the use of floating methods

Range

Methods and techniques are related to the type of load and advantages and disadvantages of one method or technique over the other.

Performance Criteria

- 1.1 The types of floating methods are identified.
- 1.2 Lifting and floating methods and techniques are explained, and their purpose is discussed in terms of safety legislation and work-site practice.
- 1.3 Basic lifting theory related to the safe of floating method is explained.
- 1.4 Calculation related to Working Load Limit (WLL) is carried out.
- 1.5 Standards formula for calculation of mass of final load on the hook is applied.
- 1.6 The consequences of the unsafe use of floating methods, is discussed and explained.
- 1.7 Communication techniques during lifting and moving the load are explained in terms of generally accepted industry practice.

Element 2: Plan and prepare to lift and move the load

Range

Resources include mechanical handling equipment, support materials, applicable documentation and personal protective equipment.

Performance Criteria

- 2.1 The planning and preparation for lifting and floating the load is explained, in line with work instructions.
- 2.2 Lifting equipment and resources are correct for the task, available on site by the agreed time, and checked for serviceability in line with regulatory and worksite practices.
- 2.3 Working space is cleared, potential obstructions are removed and personnel are notified, prior to the lifting and floating task.
- 2.4 Pre-operational checks are carried out on lifting equipment and tackle, in line with work instructions.

Element 3: Lift and float the load

Range

The learner is required to demonstrate competence in lifting, positioning and securing objects (structural steel, timber, pre-cast concrete or other similar materials), machinery and machine components which are commonly handled within a variety of industrial environments.

Performance Criteria

- 3.1 Lifting equipment and tackle is used in line with manufacturers' specifications and standard work-site practice.
- 3.2 Safety precautions are applied and adhered to, in line with applicable legislation.
- 3.3 Personnel are allocated to specific positions in order to lift and float the load safely.
- 3.4 The load is inspected for damage and its final position conforms to work instructions as reflected on drawing or job requirement.

Element 4: Maintain, care and store equipment

Range

Recording of information depends on the applicable work-site practice and may vary according specific industry sectors.

Performance Criteria

- 4.1 Lifting equipment is cleaned and stored in line with regulatory requirements and worksite practice.
- 4.2 The proper care and storage procedures for lifting equipment is explained in line with work site practices.
- 4.3 Information regarding the use of lifting equipment is recorded in line with regulations and accepted worksite practice.

Registration Data

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