

Domain	RIGGING	Unit ID: 956
Title:	Lift and move a load using manual lifting equipment tackle	
Level: 2		Credits:8

Purpose

This unit standard specifies the competencies required to lift and move a load using manual lifting equipment tackle. It includes identifying and explaining the application of lifting equipment, planning and preparing to lift and move the load, using lifting equipment to lift and move the load, maintaining, caring and storing equipment. 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. General guide for scope, context and level for the purpose of learning and assessment, lifting equipment and tackle includes 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 and tirsors.
3. All work is performed under constant supervision and according to workplace and workshop manual specifications and occupational health and safety and environmental legislation.
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.

7. Environment contexts 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.

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 and explain the application of lifting equipment

Performance Criteria

- 1.1 Various types of lifting equipment and their applications are identified and explained.
- 1.2 Basic and major components of lifting equipment are identified, and the function and purpose is explained.
- 1.3 The correct methods and techniques of the use of lifting equipment and the consequences of unsafe use, is explained and discussed.
- 1.4 Terms and definitions are consistent with generally accepted mechanical handling terminology.

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

Range

Resources may include but are not limited to lifting equipment, support materials, applicable documentation, personal protective equipment, crane/s, personnel.

Evaluation of ground conditions includes but is not limited to location of underground services, ground stability, water tables and tidal conditions on the quay-side (marine),

ship's stability.

Overhead hazards include but are not limited to power lines, telephone cables, bridge structures, buildings and ships' structure.

Performance Criteria

- 2.1 The scope and precise nature of the lifting task is explained, in accordance with work instructions.
- 2.2 Resources are correct for the task, available on site by the agreed time, and checked for serviceability in accordance with work instructions and standard worksite practices.
- 2.3 Pre-operational checks are carried out in accordance with work instruction sheet.

Element 3: Use lifting equipment to lift and move the load

Range

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

Control and safety measures include but are not limited to obstacles, wind conditions, tidal conditions, final resting place, design specifications, stability, etc.

Safe working practices include but are not limited to site access, communication and signal methods, centre of gravity of load, safety nets, static lines, fall arrest systems.

Performance Criteria

- 3.1 No damage is incurred on the lifting equipment, related accessories and fellow workers.
- 3.2 The load is inspected for damage and its end position conforms to work instructions as reflected on drawing or job requirement.
- 3.3 The equipment is used to lift and move the load safely.
- 3.4 Loads are positioned and secured as per instructions and requirements.

Element 4: Maintain, care and store equipment

Performance Criteria

- 4.1 Lifting equipment and related accessories are dismantled

- 4.2 The proper care and storage procedures for tools and equipment are demonstrated in accordance with worksite practices and specifications.
- 4.3 Information regarding the use of the lifting equipment and related accessories is recorded in accordance 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