	Unit ID: 960
Domain	**RIGGING**
Title:	**Secure a load for transportation**
Level: 2	**Credits: 4**

Purpose

This unit standard specifies the competencies required to secure a load for transportation. It includes identifying, discussing and explaining securing methods, planning and preparing to secure the load, securing the load, inspecting 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 securing methods are dependent on type of load and varies between normal to abnormal loads, securing equipment includes the use of lifting equipment, tackle, belts, straps and chains and transport vehicle load-platforms include conventional and articulated trailers (example, pipe-trailers and low-beds).

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. 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.

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 securing methods

Range

Methods and techniques include but are not limited to methods and techniques related to load-type and advantages and disadvantages of one method or technique over the other.

Performance Criteria

1.1 Securing methods are explained, and their purpose is discussed in terms of safety legislation and work-site practice.

1.2 The consequences of the unsafe securing methods, is discussed and explained.

1.3 Terms and definitions used are consistent with generally accepted mechanical handling terminology.

1.4 Communication techniques during lifting and moving the load are explained in terms of generally accepted industry practice.

Element 2: Plan and prepare to secure the load

Range

Resources may include but are not limited to mechanical handling equipment, support materials, applicable documentation and personal protective equipment.

Performance Criteria

2.1 The planning and preparation of securing the load is explained, in line with work instructions.

2.2 Securing 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 The transport vehicle is appropriate, in terms of load-bearing capacity.

2.4 Lifting space is cleared, potential obstructions are removed and personnel are notified, prior to the lifting task.

2.5 Pre-operational checks are carried out on securing equipment, in line with work instruction.

Element 3: Secure 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.

Safe working practices include but are not limited to site access, communication and signal methods and centre of gravity of load.

For the purpose of assessment, work instructions may consist of an assessment exercise which may include a work instruction or jobbing sheet, and/or work drawings and permit conditions.

Performance Criteria

3.1 The load is lifted, positioned and secured in line with job specifications and standard work-site practice.

3.2 Safety precautions are applied and adhered to, in line with legislation requirements.

3.3 Personnel are allocated to specific positions in order to lift, position and secure the load safely.

Element 4: Inspect the load

Performance Criteria

4.1 The load is inspected for stability and its end position conforms to safety requirements and work-site practice.

4.2 The load is inspected, prior to being transported and it is examined to ensure that it does not present a hazard to the safety of persons.

4.3 The secure nature of the load conforms to road safety regulations.

4.4 The load is inspected to ensure that all securing equipment is used within accepted standards without causing damage.

Element 5: Maintain, care and store equipment

Performance Criteria

5.1 Lifting equipment is cleaned and stored in line with regulatory requirements and worksite practice.

5.2 The proper care and storage procedure for lifting equipment is explained in line with work site practices.

5.3 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