

<b>Domain</b>	<b>RIGGING</b>	<b>Unit ID: 974</b>
<b>Title:</b>	<b>Use a sideboom to lift, lower and carry materials</b>	
<b>Level: 2</b>		<b>Credits: 5</b>

### Purpose

This unit standard specifies the competencies required to use sideboom to lift, lower and carry materials. It includes planning of work activities and preparing of work area, lifting, lowering and carrying material and reporting and communicating information. 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. To demonstrate competence, at a minimum a learner is required to demonstrate competence in lifting, lowering and carrying structural objects( steel, timber, precast concrete or other similar materials), machinery and/or machine components which are commonly handled within variety of industrial environments, using a side-boom.
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](http://www.nta.com.na).

## **Elements and Performance Criteria**

### **Element 1: Plan work activities**

#### **Range**

Worksite procedures may include but are not limited to manufacturer's procedures, operators' manuals and site operational requirements.

Machine attachments are limited to all permanent and removable standard components.

Alternative or complimentary equipment includes all equipment that could be used to perform the same or similar tasks.

#### **Performance Criteria**

- 1.1 Job instructions are interpreted and a sequence of operations is determined in line with worksite procedures.
- 1.2 Plans are developed to eliminate, avoid or neutralize all identified risks in line with safety regulations, legislation and site specific instructions.
- 1.3 All tools and attachments required for the work activity are selected and checked to be functional and ready for use in line with job requirements.
- 1.4 Alternative or complementary equipment is identified in terms of the required task.
- 1.5 Affected parties are informed and liaised with in line with worksite procedures.

## **Element 2: Prepare work area**

### **Range**

Statutory requirements include but are not limited to OHS regulations, environmental legislation and any local Provincial authority requirements.

### **Performance Criteria**

- 2.1 Work area is inspected and prepared in line worksite procedures.
- 2.2 Reasons for inspections and preparation are defined in terms of safety and work flow.
- 2.3 Safety of working area is ensured according to statutory requirements.
- 2.4 Descriptions of the procedures to be followed to ensure the safety of the work area are described in terms of the elimination of potential hazards.
- 2.5 Personal Protective Equipment is used according to statutory requirements.
- 2.6 The consequences of not correctly using Personal Protective Equipment are explained in terms of potential danger to self and others.

## **Element 3: Lift, lower and carry materials**

### **Range**

Ways to maximise life-span of components may include but are not limited to inspecting, maintaining, correcting and reacting to warning systems.

Unexpected circumstances may include when the specific machine is no longer suitable for the required task or can no longer operate efficiently and safely.

Statutory requirements may include but are not limited to Occupational health and safety, environmental legislation and local provincial authority requirements.

### **Performance Criteria**

- 3.1 The machine is moved to required work area according to site requirements.
- 3.2 The machine is positioned for specific operation according to manufacturer's specifications.
- 3.3 Consequences of incorrectly positioning machine are explained in terms of potential damage to machine and safety hazards to self and others.
- 3.4 Activities are performed according to manufacturer's operating procedures and job requirements in order to maximise the life-span of components, within industry accepted timeframes.

- 3.5 Consequences of not following correct sequences are explained in terms of potential damage to machine and work schedules.
- 3.6 Unexpected circumstances are dealt with according to worksite procedures.
- 3.7 Safe working procedures are followed according to statutory requirements.
- 3.8 Consequences of unsafe acts are explained in terms of the potential effect on the safety of self and others and penalties imposed.

**Element 4: Report and communicate information**

**Range**

Reporting processes may include but are not limited to reporting to supervisor, submitting reports and logbook entries.

**Performance Criteria**

- 4.1 Specified reporting and recording requirements are complied with.
- 4.2 Feedback is provided to the in-coming shift with regard to vehicle condition, environmental hazards and sub-standards in terms of specified requirements.

**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