

Domain Title:	LIFTING MACHINE OPERATIONS Sling and communicate during crane operations	Unit ID: 932
Level: 2		Credits:4

Purpose

This unit standard specifies the competencies required to sling and communicate during crane operations. It includes identifying types of lifting equipment, inspecting and evaluating lifting gear, preparing and slinging regular loads and communicating during crane operations. 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. The operator should be declared physically fit and have completed an eyesight test (such as the Orthorator test etc.) and an industry recognised depth perception and hand-eye coordination test.
3. It is assumed that people starting to learn towards this unit standard have already undergone company induction, have an appropriate licence to operate in the crane operation work areas and are competent in unit standards which address relevant code of practice and occupational health and safety.
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 use hand tools, and is able to work safely.
3. Assessment evidence may be collected from a real workplace, or simulated real workplace or an appropriate simulated realistic environment in which lifting machine operations are carried out.
4. Glossary of terms
 - *'codes of practices'* mean any organisation safety policies and procedures and relevant requirements.

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.

Elements and Performance Criteria

Element 1: Identify types of lifting equipment

Range

Equipment may include but are not limited to ropes, chains, web slings, lifting beams, spreader bars, slings, shackles, eye bolts, lifting devices.

Performance Criteria

- 1.1 Types of lifting equipment are described in relation to their purpose and use.
- 1.2 Weights of various regular loads are calculated.
- 1.3 Lifting equipment is selected, and applicable sling and lifting gear are applied to the load in line with the relevant codes of practice and company procedures.
- 1.4 Packing and dunnage are selected and applied to crane lift situations, in line with the relevant codes of practice and company procedures.

Element 2: Inspect and evaluate lifting gear

Range

Lifting gears may include but are not limited to lifting beams, spreader bars, slings, shackles, eye bolts, natural, synthetic and wire ropes, chains and web slings.

Performance Criteria

- 2.1 Lifting gear is inspected and evaluated in line with relevant codes of practice and company procedures.

Element 3: Prepare and sling regular loads

Natural and synthetic ropes may include but are not limited to bowline, clove hitch and sheet bend.

Performance Criteria

- 3.1 Regular loads are prepared and slung in line with the relevant Codes of Practice.
- 3.2 Knots are tied appropriate in natural or synthetic ropes.

Element 4: Communicate during crane operations

Range

Audible communication may include but is not limited to radio telephone, other electrical devices and verbal.

Performance Criteria

- 4.1 Hand signals for cranes and lifting appliances are shown in line with recognised practice.
- 4.2 Audible communication is done in line with the relevant Codes of Practice, and company procedures.

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