

<b>Domain</b>	<b>CRANE OPERATION - CORE</b>	<b>Unit ID: 1089</b>
<b>Title:</b>	<b>Sling regular loads and communicate during crane operations</b>	
<b>Level: 3</b>		<b>Credits: 20</b>

### Purpose

This unit standard is intended for those who carry out crane operations. People holding credit for this unit standard are able to: Plan and prepare for work; inspect and evaluate lifting gear; sling regular loads; communicate during crane operations; and clean up work area.

### Special Notes

1. Entry information:
  - Prerequisite
    - Unit 1079 – *Comply with health, safety and environmental rules and regulations pertaining to crane operations.*
2. Expected worksite production target are to be met.
3. Assessment evidence may be collected from a real workplace or a simulated workplace in which crane operations are carried out.
4. Maintenance may include but is not limited to cleaning, authorised servicing and the monitoring, recording and reporting of faults. It may also include the conduct of authorised minor replacements and the provision of assistance to maintenance and repair activities.
5. Safe working practices include but are not limited to day-to-day observation of safety policies and procedures, and compliance with emergency procedures.
6. Performance of all elements in this unit standard must comply with all relevant legal and workplace requirements, contractual agreement and/or manufacturers' specifications.
7. Regulations and legislation, including subsequent amendments, relevant to this unit standard may include but are not limited to the following:
  - Labour Act, No. 11 of 2007
  - Regulations relating to the Health and Safety of employees at work, 1997 and all industry specific regulations, legislations, code of practice, or code of conduct.

### 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. All approved unit standards, qualifications and national assessment arrangements are available on the Namibia Training Authority website [www.nta.com.na](http://www.nta.com.na).

## **Elements and Performance Criteria**

### **Element 1: Plan and prepare for work**

#### **Range**

Inspection and preparation of work area and equipment may include but is not limited operational capability of lifting equipment such as correct safe working load of slings; and compliance with statutory regulations.

#### **Performance Criteria**

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, explained, clarified and applied to the allocated task.
- 1.2 Safety requirements, including personal protective clothing and equipment are obtained from the site safety plan, workplace policies and procedures, and applied to the allocated task.
- 1.3 Traffic control requirements are obtained and implemented according to workplace requirements.
- 1.4 Plant, tools, fuel, lubricants, equipment, attachments and accessories selected to carry out tasks are checked for consistency with the requirements of the job, their usability and any faults rectified or reported prior to commencement of work.
- 1.5 Environmental protection requirements are identified from the project environmental management plan and applied to the allocated task.
- 1.6 Work area and equipment is inspected and prepared according to workplace procedures.

### **Element 2: Inspect and evaluate lifting gear**

#### **Range**

Lifting gear may include but is not limited to ropes; chains; web slings; lifting beams; spreader bars; slings; shackles; eye bolts; and lifting devices.

#### **Performance Criteria**

- 2.1 Types of lifting gear are identified and described in relation to their purpose and use.
- 2.2 The mass of various regular loads are calculated and sling and lifting gear, appropriate for the job, are selected in accordance with best industry practice and workplace procedures.

- 2.3 Lifting gear is inspected and evaluated in accordance with best industry practice, manufacturer's specifications and workplace procedures.

### **Element 3: Sling regular loads**

#### **Range**

Appropriate knots may include but are not limited to bowline, clove hitch and sheet bend.

#### **Performance Criteria**

- 3.1 Regular loads are prepared and slung in accordance with best industry practice and workplace procedures.
- 3.2 Package and dunnage are selected and applied to crane lift situations in accordance with best industry practice and workplace procedures.
- 3.3 Appropriate knots in natural and synthetic ropes are tied.

### **Element 4: Communicate during crane operations**

#### **Range**

Communication may include but is not limited to radiotelephone; two-way radio; other electronic devices; and verbal communication.

#### **Performance Criteria**

- 4.1 Hand signals for cranes and lifting appliances are applied in accordance with recognised practice.
- 4.2 Audible communication is done in accordance with best industry practice and workplace procedures.

### **Element 5: Clean up work area**

#### **Performance Criteria**

- 5.1 Work area is cleared and materials disposed of or recycled in accordance with project environment management plan.
- 5.2 Plant, tools and equipments are cleaned, checked, maintained, serviced and stored in accordance with manufacturers' recommendations and standard work practices.
- 5.3 Inspection, faultfinding, and reporting is carried out according to manufacturer's requirements and workplace procedures.

## **Registration Data**

<b>Subfield:</b>	Lifting, shifting, securing loads
<b>Date first registered:</b>	27 March 2013
<b>Date this version registered:</b>	27 March 2013
<b>Anticipated review:</b>	2016
<b>Body responsible for review:</b>	Namibia Training Authority