Unit ID: 1107

Domain: CRANE OPERATION
Title: Lift and place loads with telescopic boom handler
Level: 4 Credits: 12

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; demonstrate knowledge of the functions of a telescopic boom handler; start and shutdown telescopic boom handler; operate telescopic boom handler; perform maintenance and authorised service operations on telescopic boom handler; complete work related documents; 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
   • Road Traffic and Transport Regulations No. 52, 1999 and Government Notice No 53 Road Traffic and Transport Regulations 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.

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 to levelling ground; checking soil conditions; proximity of other machines and personnel; 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: Demonstrate knowledge of the functions of a telescopic boom handler

Performance Criteria

2.1 The main functions of the telescopic boom handler are explained in terms of manufacturer’s specifications.

2.2 The operation of all major components is explained in terms of their functions.
2.3 Safety features and warning devices on telescopic boom handler are identified, and their purposes explained in accordance with manufacturer’s specifications.

2.4 The maximum operating capacities and efficiencies are explained in terms of the specific telescopic boom handler capabilities in accordance with manufacturer’s specifications.

2.5 Warnings from telescopic boom handler indicators and gauges are explained according to manufacturer’s specifications.

2.6 Corrective actions are described or demonstrated in terms of responses to warnings received.

Element 3: Start and shutdown telescopic boom handler

Range

Appropriate checklist may include but is not limited to manufacturer’s checklist; pre-operational checklist; site-specific checklist; daily checklist; and weekly checklist.

Performance Criteria

3.1 Pre-operational checks are carried out according to appropriate checklist and workplace procedures.

3.2 Start-up and shutdown procedures are followed according to manufacturer’s specifications.

3.3 Telescopic boom handler hours are recorded, if required, in accordance with workplace requirements.

Element 4: Operate telescopic boom handler

Range

Physical properties may include but are not limited to density; dimensions; centre of gravity; temperature; and stability of a suspended load.

Performance Criteria

4.1 Functions of the various controls are demonstrated in accordance with manufacturer’s specifications.

4.2 Temporary safety signs are explained in relation to their use and placement and are used as required.

4.3 The physical properties of a load are identified and confirmed.

4.4 The appropriate attachment for the load type, if applicable, is selected and used as per manufacturer’s specifications.

4.5 Controls are used to efficiently lift, transport, stack and store loads within workplace requirements and manufacturer’s specifications.
4.6 Telescopic boom handler performance is monitored and corrective action is taken when necessary, in accordance with manufacturer’s specifications.

4.7 The load is inspected for damage and its end position conforms to work instructions reflected on drawing or job requirement.

**Element 5: Perform maintenance and authorised service operations on telescopic boom handler**

**Performance Criteria**

5.1 Daily and weekly operator maintenance is performed according to the appropriate post-operational checklist and recordkeeping using a logbook.

5.2 Telescopic boom handler maintenance and faults are reported in accordance with workplace requirements.

**Element 6: Complete work related documents**

**Performance Criteria**

6.1 Work related documents are completed in accordance with contract and workplace requirements.

6.2 Maintenance and service related documents are completed in accordance with manufacturer and workplace requirements.

6.3 Documents related to accidents or other incidents are completed in accordance with workplace requirements.

**Element 7: Clean up work area**

**Performance Criteria**

7.1 Work area is cleared and materials disposed of or recycled in accordance with project environment management plan.

7.2 Plant, tools and equipments are cleaned, checked, maintained, serviced and stored in accordance with manufacturers’ recommendations and standard work practices.

7.3 Inspection, faultfinding, and reporting is carried out according to manufacturer’s requirements and workplace procedures.
## Registration Data

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