

	Unit ID: 1006
Domain	INTERMEDIATE SCAFFOLDING
Title:	Erect, operate, and dismantle mast climbers
Level: 4	Credits: 10

Purpose

This unit standard specifies the competencies required to erect, operate, and dismantle mast climbers. It includes planning and preparing for the erection of a mast climber, erecting a mast climber, checking the structure is compliant, operating a mast climber and dismantling a mast climber. This unit standard is intended for those who work in lifting machine operations environment.

Special Notes

1. Entry information:
Prerequisite:
 - Unit 937 - *Apply safety rules and regulations in lifting machine operations* or demonstrated equivalent knowledge and skills.
2. To demonstrate safe working practices the learner should be in possession of personal protective equipment which includes safety glasses, goggles, visors, safety gloves, gauntlets and helmets.
3. Glossary of terms:
 - A '*client*' refers to an individual or representative of a company who commissions a particular scaffold or scaffolding structure to be erected, or is an end user of the scaffold or scaffolding structure.
 - 'BPGFS' refers to best practice guidelines for scaffolding.
4. Design, erection and dismantlement of scaffolds and scaffolding structures in this unit standard must take place under the direct supervision of a certified scaffolder who holds a current Certificate of Competence for the scaffolding concerned.
5. Evidence is required for at least two separate mast climber assemblies in different situations. Where possible mast climbers of different types should be used. Assessment should not be conducted in scaffolding requiring a Registered Engineer to certify the adequacy of the design prior to the erection of the scaffold.
6. Assessment evidence may be collected from a real workplace, or an appropriate simulated realistic environment in which lifting machine operations are carried out.

7. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' specifications, guidelines and instructions.
8. Regulations and legislation relevant to this unit standard include the following:
 - Labour Act, No. 11, 2007
 - Occupational Health and Safety Regulations No. 18, 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: Plan and prepare for the erection of a mast climber

Range

Erection requirements must include the load to be carried or supported, operating height(s), offset distance; may also include but is not limited to ground conditions, tie points to a supporting structure.

Performance criteria

- 1.1 Erection requirements are confirmed with the work supervisor or client.
- 1.2 A lay out plan is drawn in accordance with the best practice guidelines for scaffolding (BPGFS) and manufacturer's instructions.

Element 2: Erect a mast climber

Performance criteria

- 2.1 Base is secured and confirmed as square and level in accordance with the lay out plan and manufacturer's instructions.
- 2.2 Mast sections are added and levelled progressively in accordance with the lay out plan and manufacturer's instructions.

- 2.3 Mast sections are progressively tied to a supporting structure in accordance with the lay out plan and manufacturer's instructions.

Element 3: Check the structure is compliant

Performance criteria

- 3.1 The structure is checked for compliance with the BPGFS inspection report and the scaffold plan.
- 3.2 A BPGFS inspection report is completed in accordance with the BPGFS.
- 3.3 Where the structure is not compliant changes are made to it to ensure compliance, and the BPGFS report is amended accordingly.
- 3.4 Inspection of the structure by a certificated scaffolder who has an appropriate certificate or by a Registered Engineer is sought in accordance with the BPGFS practice. Where the structure is not compliant changes are made to ensure compliance.

Element 4: Operate a mast climber

Performance criteria

- 4.1 Load and personnel are moved safely using a mast climber in accordance with the BPGFS and manufacturer's instructions.
- 4.2 Mast climber is operated in accordance with the manufacturer's instructions.

Element 5: Dismantle a mast climber

Performance criteria

- 5.1 Mast sections and ties are removed progressively from the top down in accordance with the BPGFS and manufacturer's instructions.
- 5.2 Platform is stripped and removed, including the base if required, in accordance with the BPGFS and manufacturer's instructions.

Registration Data

Subfield:	Lifting Equipment
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