

Domain	INTERMEDIATE SCAFFOLDING	Unit ID: 1005
Title:	Erect and dismantle catch fans	
Level: 4		Credits: 10

Purpose

This unit standard specifies the competencies required to erect and dismantle catch fans. It includes planning and preparing for the erection of catch fans, erecting catch fan scaffolding, checking the stability and compliance of the structure and dismantling catch fan scaffolding. 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. 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.
4. 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.
 - '*Catch fans*' are cantilevered structures attached to scaffolding to contain falling debris and provide protection below the scaffolding. For the purposes of this unit standard *catch platforms*, *catch screens*, *catch nets* and *fans* attached to scaffolding using cantilevered assemblies are considered catch fans.
 - *Spurs* are cantilevered members (normally tubes) projecting from a scaffold to carry covering material along a length of scaffold to provide shelter or protection.

- 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 three different catch fan structures on separate scaffolds. Additionally, at least one of these scaffolds must have multiple (two or more) catch fan structures.
- 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 catch fans

Range

Requirements must include the area to be protected, placement in relation to the scaffold, engineering and scaffold plan requirements; may also include but is not limited to tie points and methods to brace the supporting structure.

Performance criteria

- 1.1 Catch fan requirements are confirmed with the work supervisor or client.

- 1.2 A scaffold plan is drawn in accordance with the BPGFS and the directions of the consulting Registered Engineer.
- 1.3 The necessary equipment is identified and sourced in accordance with the scaffold plan.

Element 2: Erect a catch fan

Range

Catch fan is braced where possible using spurs from below, where necessary using spurs or wire rope from above.

Covering material attached may include but is not limited to planks and ply, ply, screening, chicken mesh.

Performance criteria

- 2.1 Spurs are erected from the existing scaffold in accordance with the scaffold plan.
- 2.2 Catch fan is braced in accordance with the scaffold plan.
- 2.3 Supporting scaffold is braced in accordance with the scaffold plan.
- 2.4 Additional ties are constructed at the level of the catch fan between the scaffold proper and the supporting structure, in accordance with the scaffold plan, the BPGFS and the directions of the consulting Registered Engineer.
- 2.5 Covering material is attached in accordance with the scaffold plan and the BPGFS.

Element 3: Check the stability and compliance of the structure

Range

Stability of catch fan must include but is not limited to security of attachment points, security and integrity of covering material.

Performance criteria

- 3.1 The stability of catch fan(s) and associated components is checked and confirmed with the scaffold plan, and any adjustments made as necessary.
- 3.2 The entire structure is checked for compliance with the BPGFS inspection report.
- 3.3 A BPGFS inspection report is completed in accordance with the BPGFS.
- 3.4 Where the structure is not compliant changes are made to it to ensure compliance and the BPGFS report is amended accordingly.

- 3.5 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 and HSE code of practice. Where the structure is not compliant changes are made to ensure compliance.

Element 4: Dismantle a catch fan

Performance criteria

- 4.1 Covering material is removed in accordance with the BPGFS.
- 4.2 Catch fan bracing and spurs are dismantled in accordance with the BPGFS.
- 4.3 The additional scaffold bracing is dismantled in accordance with the BPGFS.
- 4.4 Catch fan related ties to the supporting structure are dismantled in accordance with the BPGFS.

Registration Data

Subfield:	Lifting Equipment
Date first registered:	27 September 2012
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Anticipated review:	2015
Body responsible for review:	Namibia Training Authority