	Unit ID: 1009
Domain	**ADVANCED SCAFFOLDING**
Title:	**Plan and prepare advanced scaffolding work**
Level: 4	**Credits: 40**

Purpose

This unit standard specifies the competencies required to plan and prepare advanced scaffolding work. It includes planning an advanced scaffolding job, producing and using drawings and sketches, selecting, inspecting, and repairing materials and tools, and coordinating transport of equipment to site. 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.

   - *'Components'* are items used to make up a scaffold such as standards, couplers, frames and planks. Components may include specialist gear for particular types of scaffolding such as base jacks or castors. They also include items ancillary to the scaffold itself, but which are nevertheless integral to its erection, modification, and/or dismantlement. This includes personal protective equipment and gear involved in the transport of scaffolding equipment such as dunnage, cleats, wire and ties. Components exclude scaffolding tools.

   - 'BPGFS' refers to best practice guidelines for scaffolding.

4. The equipment range is to include: tube and coupler covered ways and gantries; scaffolding associated with perimeter safety screens and shutters; cantilevered hoists with a working load limit not exceeding 250 kilograms (materials only); ropes; gin wheels; static lines and fall arrest systems; bracket scaffolds (tank and formwork); cantilevered loading platforms from a scaffold; cantilevered and spurred scaffolds; and hung scaffolds (including scaffolds hanging from tubes, wire ropes and chains).

5. The equipment range is to exclude: hand haul and mechanical bosun chairs; building maintenance units; and hand haul and mechanical swinging stages.

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 an advanced scaffolding job

Range

Site information pertinent to task at hand includes but not limited measures, prevention, access and egress, site sketches, dimensions.

Practice and approved design standards, and required approvals may include but are not limited to regulatory permits, site conditions, involvement of other trades and client approvals.

Performance criteria

1.1 Purpose for scaffolding and/or equipment and the various work tasks are confirmed with supervisor against client's requirements.

1.2 Expected loadings on the scaffold and/or equipment, supporting structure, and cantilevered loading platform are determined.

1.3 Rope tensions, suspension points and/or counterweights, and parapet brackets are calculated in accordance with design requirements.

1.4 Site information pertinent to task at hand is obtained in accordance with enterprise procedures.

1.5 Job is planned in accordance with approved design standards, and required approvals are obtained in accordance with enterprise procedures.

Element 2: Produce and use drawings and sketches

Performance criteria

2.1 Site, scaffolding and equipment plans and designs are interpreted in accordance with industry practices.

2.2 Clear and concise site sketches of structures are produced in accordance with industry practices.

2.3 Clear and concise line drawings of scaffolds are produced in accordance with industry practices.

2.4 Configurations, types, and quantities of components in relation to task are estimated in accordance with enterprise procedures. This includes line diagrams, components appropriate to types of scaffolding.

Element 3: Select, inspect, and repair scaffolding and equipment components and tools

Performance criteria

3.1 Scaffolding and equipment components appropriate to the task are selected and inspected, and damaged components are labelled and rejected in accordance with enterprise procedures.

3.2 Rejected components are repaired or sent for repair in accordance with enterprise procedures.

3.3 Scaffolding and/or equipment tools are selected and inspected, and faulty tools repaired or sent for repair in accordance with enterprise procedures.

Element 4: Coordinate transport of scaffolding and equipment components and tools to site

Performance criteria

4.1 Components and tools are loaded on transport in the sequence required for erection at job at hand, in accordance with enterprise procedures.

4.2 Load is arranged in a manner to prevent injury to personnel and damage to components and tools in transit, in accordance with enterprise procedures.

Registration Data

Subfield:	Lifting Equipment
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