

<b>Domain</b>	<b>PLUMBING</b>	<b>Unit ID: 472</b>
<b>Title:</b>	<b>Erect and dismantle scaffolding as part of plumbing operations</b>	
<b>Level: 3</b>		<b>Credits: 4</b>

### Purpose

This unit standard specifies the competencies required to erect and dismantle a range of modular scaffolding systems to provide work platforms for plumbing purposes. The unit includes placement of safety barriers and only involves modular scaffolding restricted to a height of 4 metres.

This unit standard is intended for those who work as plumbers.

### Special Notes

1. Entry information
  - Prerequisite:
    - 434 - *Apply safety rules and regulations in plumbing operations* or demonstrated equivalent knowledge and skills.
2. Assessment evidence may be collected from a real workplace, or simulated real workplace or an appropriate simulated realistic environment in which plumbing operations are carried out.
3. Types of scaffolding may include but are not limited to systems scaffolding, modular, A-frame, H-frame, tube and coupler and aluminium.
4. Performance of all elements in this unit standard must comply with all relevant workplace requirements and/or specifications.
5. Regulations and legislation relevant to this unit standard include the following:
  - Labour Act No 6, 1992
  - Occupational Health and Safety Regulations No.18, 1997 and all subsequent amendments.

### 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](http://www.nta.com.na).

## **Elements and Performance Criteria**

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

#### **Range**

Planning and preparation is to include, but is not limited to worksite inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements.

#### **Performance Criteria**

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details developed and applied.
- 1.2 Safety requirements are followed in accordance with safety plans and policies.
- 1.3 Sign and barricade requirements are implemented.
- 1.4 Plant, tools and equipment selected to carry out tasks are consistent with the requirements of the job, checked for serviceability and any faults are rectified or reported prior to commencement.
- 1.5 Material quantity requirements are calculated in accordance with plans and/or specifications.
- 1.6 Materials appropriate to the work application are prepared, safely handled and located ready for use.
- 1.7 Environmental protection requirements for the project are applied in line with environmental plans and regulatory obligations.

### **Element 2: Erect scaffolding**

#### **Range**

Erection of scaffolding, to a maximum height of 4 metres may include but is not limited to placement, sequencing, squaring and levelling. Evidence is required of planning, erecting and dismantling a modular scaffolding system, including a minimum of three bays (one with a return), one lift with ladder and fall/edge protection.

#### **Performance Criteria**

- 2.1 Purpose for scaffolding is confirmed and associated work tasks identified.
- 2.2 Expected loading on scaffold and supporting structure is determined using load tables and manufacturers' specifications.
- 2.3 Site access and egress routes are identified.

- 2.4 Scaffolding and components are selected and inspected and damaged components labelled and rejected.
- 2.5 Sole board/base plate is selected in accordance with relevant regulations, legislation and manufacturers' specifications.
- 2.6 Scaffolding is set out and erected in accordance with legislation and regulatory requirements and manufacturers' requirements.
- 2.7 Static lines are erected and installed where specified in accordance with legislation and regulatory requirements.
- 2.8 Lifting device is assembled and erected where specified.

### **Element 3: Whip, tie, splice and inspect ropes**

#### **Performance Criteria**

- 3.1 Whipping cord and fibre rope is inspected for damage and/or wear.
- 3.2 Designated rope ends are whipped in accordance with regulations and project specifications.
- 3.3 Designated rope ends are spliced in accordance with regulations and project specifications.
- 3.4 Bends and hitches are applied and inspected in accordance with project specifications.

### **Element 4: Inspect, repair and adjust erected scaffolding**

#### **Performance Criteria**

- 4.1 Erected modular scaffolding is inspected for damage, corrosion, wear and compatibility.
- 4.2 Current use of scaffolding is checked against original design and is in accordance with regulations and specifications.
- 4.3 Scaffolding stability is inspected and confirmed.
- 4.4 Alteration or repair carried out where required.
- 4.5 Inspection log and handover is completed and dated, ready for signing by a certificated scaffolder.

### **Element 5: Dismantle scaffolding**

#### **Performance Criteria**

- 5.1 Scaffolding is isolated and appropriately signed and barricaded to ensure safe dismantling.
- 5.2 Scaffolding is dismantled using reverse procedure as for erection.

### **Element 6: Clean up work area**

#### **Performance Criteria**

- 6.1 Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations and job specifications.
- 6.2 Plant, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturers' recommendations and standard work practices.
- 6.3 Documentation is completed in line with workplace procedures.

### **Registration Data**

<b>Subfield:</b>	General Construction
<b>Date first registered:</b>	15 November 2007
<b>Date this version registered:</b>	15 November 2007
<b>Anticipated review:</b>	2010
<b>Body responsible for review:</b>	Namibia Training Authority