

<b>Domain</b>	<b>BRICKLAYING</b>	<b>Unit ID: 10</b>
<b>Title:</b>	<b>Carry out basic excavation as part of bricklaying operations</b>	
<b>Level: 2</b>		<b>Credits: 4</b>

### Purpose

This unit standard specifies the competencies required to undertake hand excavation tasks as part of bricklaying operations. It also includes the excavations requiring the assistance of plant machinery to form excavations for footings and the provisions of services as part of bricklaying operations. It includes excavation to new and existing sites, new or diversion of existing services. This unit standard is intended for those who work as bricklayers and plasterers.

### Special Notes

2. Entry information  
Prerequisite:
  - Unit 3 - *Apply safety rules and regulations in bricklaying operations* or demonstrated equivalent knowledge and skills.
3. Excavations may include but are not limited to provisions for footings or slabs to new structures or to extend existing structures, to provide provisions for new services and to modify or repair existing services. Topography of the site is limited to flat surfaces.
4. To demonstrate competence, at a minimum, requires evidence of setting out, marking out and excavating a trench without damaging services. Perform these tasks ensuring correct identification of requirements and finishing of the tasks, correct selection and use of appropriate processes, tools and equipment and completing all work to specification.
5. Assessment evidence may be collected from a real workplace or simulated real workplace or an appropriate simulated realistic environment in which bricklaying operations are carried out.
6. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' guidelines and instructions.
7. '*Specifications*' refers to any, or all of the following: manufacturers' specifications and recommendations, site and workplace specific requirements.
8. 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 [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.

Materials are to include but are not limited to timber, nails and pegs, sheet material and shoring (timber and metal).

#### **Performance Criteria**

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, confirmed and applied.
- 1.2 Safety requirements are followed in accordance with safety plans and policies.
- 1.3 Sign and barricade requirements are identified and adhered to.
- 1.4 Plant, tools and equipment selected to carry out tasks that 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 specifications.
- 1.6 Materials appropriate to the work application are identified, obtained, prepared, safely handled and located ready for use.
- 1.7 Environmental protection requirements are identified and applied in line with environmental plans and regulatory obligations.

### **Element 2: Locate excavation site and erect safety signs and barricades**

#### **Range**

Set out is to include but is not limited to identification of services which can be damaged or impede excavation and marking out of the project.

Excavation may include but is not limited to excavating in gravel, sand, clay, shale and rock ground, wet ground, dry ground, loose ground or any type of foundation material.

Evidence of the use of two types of ground is required for assessment purposes.

### **Performance Criteria**

- 2.1 Excavation route is located, and line and depth established from site plans and instructions.
- 2.2 Site pegs and profiles are used to identify service markers and to set out service points.
- 2.3 Excavation limits are marked.
- 2.4 Safety signs and barricades appropriate to the project are erected in positions as required by site safety plan.
- 2.5 Temporary drainage system is established to divert surface and sub-surface water from excavation.
- 2.6 Service markers and taped areas are identified and damage or interference with underground services avoided.

### **Element 3: Dig excavation**

#### **Range**

Trench and excavation support may include sheet material, shoring (timber, metal or piling).

### **Performance Criteria**

- 3.1 Excavations are safely dug with hand tools to ensure correct route, line and depth.
- 3.2 Procedures are used to minimise risk to self and others.
- 3.3 Machine operator is assisted with excavation to ensure correct route, line and depth and that correct procedures are followed to minimise risk to self and others.
- 3.4 Trench and excavation support is installed where specified by job specifications and regulations.
- 3.5 Excavation is cleaned free from loose material with hand tools and to job requirements and instructions.

### **Element 4: Clean up**

#### **Performance Criteria**

- 4.1 Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations and job specification.
- 4.2 Plant, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturers' recommendations and standard work practices.

## **Registration Data**

<b>Subfield:</b>	General Construction
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<b>Body responsible for review:</b>	Namibia Training Authority