

Unit ID: 30

Domain

BRICKLAYING

Title:

**Use bricklaying and plastering machine
tools, plant and equipment**

Level: 3

Credits: 2

Purpose

This unit standard specifies the competencies required to safely and effectively use machine tools, plant and equipment in bricklaying/block laying tasks. It includes the identification, selection, use, routine maintenance and storage of machine tools, small plant and equipment used in brick work. This unit standard is intended for those who work as bricklayers and plasterers.

Special Notes

1. Entry information

Prerequisite:

- Unit 3 - *Apply safety rules and regulations in bricklaying operations* or demonstrated equivalent knowledge and skills.

2. To demonstrate competence, at a minimum, requires evidence of the use of three different machine tools in undertaking a general bricklaying/blocklaying task and a general plastering task. Also demonstrate use of two different items of small plant and equipment in undertaking a general bricklaying/blocklaying task and a general plastering task. 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.

3. Assessment evidence may be collected from a real workplace or a simulated real workplace or an appropriate simulated environment in which bricklaying operations are carried out.

4. Machine tools are to include but are not limited to power saws, brick saws, angle grinders, power grinders, power mixers, and power float.

5. Plant is to include, but is not limited to small petrol or diesel engine driven generators and mixers; power fasteners; and may include earth leakage protection, lighting sets, elevators, scaffolds and materials hoists. Evidence of the use of two is required for assessment purposes.

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/or recommendations, site and/or 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 on www.nta.com.na

Elements and Performance Criteria

Element 1: Plan and prepare for work

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 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 identified, obtained, prepared, safely handled and located ready for use.
- 1.7 Environmental protection requirements for the project are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Identify and select machine tools

Performance Criteria

- 2.1 Function and limitations of machine tools to be used in the bricklaying/blocklaying and plastering work are identified.
- 2.2 The method of operation of machine tools is identified from specifications, standards and manufacturers' instructions.
- 2.3 Safety requirements for specific machine tools, including requirements for guarding, guiding and controls, are identified and applied.
- 2.4 Personal protective equipment required for the operation of machine tools is identified in accordance with regulatory and workplace requirements.

- 2.5 Machine tools are selected consistent with hazard minimisation and needs of the job.
- 2.6 Machine tools are checked for safety, and faults reported to supervisor.
- 2.7 Safety requirements for operating and using machine tools are recognised and followed.

Element 3: Demonstrate safe handling and use of machine tools

Performance Criteria

- 3.1 Start up and shut down procedures are observed.
- 3.2 Machine tool is used safely and effectively according to manufacturers' recommendations and regulatory requirements.
- 3.3 Machine tool is safely switched off and stored when not in use.

Element 4: Identify and select plant and equipment

Performance Criteria

- 4.1 Function and limitations of plant and equipment to be used in the bricklaying/blocklaying and plastering work are identified.
- 4.2 The method of operation of plant and equipment is identified from specifications, standards and manufacturers' instructions.
- 4.3 Safety requirements for specific plant and equipment, including requirements for guarding, guiding and controls, are identified and applied.
- 4.4 Personal protective equipment required for the operation of plant and equipment is identified in accordance with regulatory and workplace requirements.
- 4.5 Plant and equipment are selected consistent with hazard minimisation and needs of the job.
- 4.6 Plant and equipment are checked for safety, and faults reported to supervisor.
- 4.7 Safety requirements for operating and using plant and equipment are recognised and followed.

Element 5: Demonstrate safe handling and use of plant and equipment

Performance Criteria

- 5.1 Start up and shut down procedures are observed.
- 5.2 Plant and equipment are used safely and effectively according to manufacturers' recommendations and regulatory requirements.

5.3 Plant and equipment are safely switched off and stored when not in use.

Element 6: Clean up

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 Machine tools, and/or plant and equipment are cleaned, checked, maintained and stored in accordance with manufacturers' recommendations and standard work practices.

Registration Data

Subfield:	General Construction
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