

Unit ID: 30	
Domain	BRICKLAYING AND PLASTERING
Title:	Use machine tools, plants 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, plastering and concreting tasks. It includes the identification, selection, use, routine maintenance and storage of machine tools, plants and equipment. This unit standard is intended for those who work as bricklayers.

Special Notes

1. Entry information

Prerequisite:

- *Unit 1157- Demonstrate basic knowledge of workplace health and safety or demonstrated equivalent knowledge and skills.*
- *Unit 1 - Plan and organise construction work*

2. To demonstrate competence, at a minimum, requires evidence of the use of different machine tools, plants and equipment in undertaking a general bricklaying, general plastering and concreting 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 in which bricklaying operations are carried out.

4. Machine tools, Plants and equipment (Portable and static) are to include but are not limited to power saws, brick saws, angle grinders, power grinders, power mixers, and power float compactor, jackhammer, power drill, vibrator, concrete cutter, extension leads reinforcement cutting bending machine, 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 the two above is required for assessment purposes.

5. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' guidelines and instructions.

6. '*Specifications*' refers to any, or all of the following: manufacturers' specifications and/or recommendations, site and/or workplace specific requirements.

7. Regulations and legislation relevant to this unit standard include the following:

- Labour Act 2007 (Act no.11, 2007)
- Local Authority Act 23, 1992

- SABS 0400
- NOSA
- Occupational Health and Safety Regulations under schedule 1(1) of Labour Act No. 11 of 2007 No. 18, 1997
- Government Notice No. 156 Labour Act, 1992: “Regulations Relating to the Health and Safety of Employees at Work”
- Building Regulations and Building Standards Act, 1977 (Act No. 103 of 1977)
- 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: Identify and select machine tools, plant and equipment

Performance Criteria

- 1.1 Function and limitations of machine tools, plant and equipment to be used in the bricklaying, plastering and concreting work are identified.
- 1.2 The method of operation of machine tools, plant and equipment are identified from specifications, standards and manufacturers' instructions.
- 1.3 Safety requirements for specific machine tools, plant and equipment including requirements for guarding, guiding and controls, are identified and applied.
- 1.4 Personal protective equipment required for the operation of machine tools plant and equipment, are identified in accordance with regulatory and workplace requirements.
- 1.5 Machine tools, plant and equipment are selected consistent with hazard minimisation and needs of the job.
- 1.6 Machine tools, plant and equipment are checked for safety, and faults reported to supervisor.
- 1.7 Safety requirements for operating and using machine tools, plant and equipment are recognised and followed.

Element 2: Demonstrate safe handling and use of machine tools, plant and equipment

Performance Criteria

- 2.1 Procedures for start and shut down machine tools, plant and equipment are adhered to.
- 2.2 Machine tool, plant and equipment are used safely and effectively according to manufacturers' recommendations and regulatory requirements.
- 2.3 Machine tools, plant and equipment are safely switched off and stored when not in use.
- 2.4 Operations and maintenances procedures are followed as instructed by the manufacturer.

Registration Data

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