

	Unit ID: 23
Domain	BRICKLAYING AND PLASTERING
Title:	Construct masonry stairs and steps
Level: 3	Credits: 4

Purpose

This unit standard specifies the competencies required to construct masonry stairs, steps, and wing walls. It includes the planning, preparation, setting out and installation of the masonry. This unit standard is intended for those who work as bricklayers and plasterers.

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 constructing a flight of masonry stairs with a minimum of three pre-cast treads; and construct a flight of three solid masonry treads with a parallel wing wall on one side. Ensure 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. All inspection, operation and maintenance procedures associated with the use of tools and equipment shall comply with manufacturers' guidelines and instructions.

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

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

- Labor 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: Set out bricks/block work

Performance Criteria

- 1.1 Work platform is erected in accordance with regulatory and workplace requirements.
- 1.2 Location and relative level of prepared footing are checked from job drawings and specifications.
- 1.3 Rise and going of flight and individual steps are calculated to codes and workplace requirements.
- 1.4 Flight and individual steps are set out from calculations and job drawings.

Element 2: Lay bricks / blocks forming steps and wing walls

Range

Materials are to include but are not limited to concrete bricks, masonry blocks, aggregates, cement, lime and pre-cast concrete steps. Materials may include waterproofing materials.

Performance Criteria

- 2.1 Mortar mix is prepared and checked for conformity and bricks/blocks are laid to specifications, standards and codes.
- 2.2 Base brickwork is constructed to specifications and requirements of standards and codes.
- 2.3 Steps are formed square, level, plumb and true laid to specified bond.
- 2.4 Profile of steps is constructed to bond and design, aligned and plumb to specifications.
- 2.5 Parallel wing walls are formed to step alignment in accordance with specifications.
- 2.6 Jointing is carried out to job specifications.
- 2.7 Brickwork/block work is laid to line and set out with gauge and completed to job drawings, specifications standards and codes.

2.8 Brick/block faces are cleaned free of mortar.

Registration Data

Subfield:	Civil and Building Services Engineering
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