

	Unit ID: 22
Domain	BRICKLAYING AND PLASTERING
Title:	Construct masonry curved walls
Level: 3	Credits: 4

Purpose

This unit standard specifies the competencies required to construct masonry curved walls. It includes the preparation, set out and construction of curved walls. 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. The unit standard requires the laying of bricks/blocks to construct curved walls.
3. To demonstrate competence, at a minimum, requires evidence of constructing two curved walls using the template method and trammel method. Perform these tasks ensuring correct identification of requirement and finishing of the tasks, correct selection and use of appropriate processes, tools and equipment and completing all work to specification.
4. Assessment evidence may be collected from a real workplace or a simulated real workplace in which bricklaying operations are carried out.
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 recommendations, site and workplace specific requirements.
7. 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 curve wall

Range

Tools and equipment are to include but are not limited to wheelbarrows, concrete mixers, buckets, hoses, shovels, measuring tapes/rules, plumb rules, jointing tools, hammers, bolsters, spirit levels, dumpy levels, trowels, mortar boards, straight edges, profiles, string lines, line blocks, line pins, builders lines, masonry saws, mason's squares, builder's squares, pointing or raking tools, curve templates and trammel heads. Tools and equipment may include brick barrows and small petrol/diesel mixers.

Methods of constructing masonry curved walls are to include trammel and templates.

Performance Criteria

- 1.1 Key plan curve points are plotted from job drawings and all trammel centres established on footing slab.
- 1.2 Curve of wall is planned to specified location from trammel or plotted points and marked on footing slab.

Element 2: Build a curved wall

Performance Criteria

- 2.1 Mortar is mixed to specifications and spread evenly to the established wall location.
- 2.2 Gauge is maintained within standard tolerance at every course level.
- 2.3 Vertical face alignment is maintained.
- 2.4 Bricks are cut to requirements.
- 2.5 Bricks/blocks are laid level over the length of the wall to the established plan profile.
- 2.6 Bricks/blocks are laid to specified bond with perpendicular joints (perpends) maintained in vertical line.
- 2.7 Project is completed to requirements of job drawings and specifications.

Element 3: Finish joints

Performance Criteria

- 3.1 Excess mortar is removed from brick/block work surfaces .Joints of laid brickwork/block work are raked or ruled to correct profile and depth to job specifications.
- 3.2 Brickwork/block work is brushed down prior to drying.

Registration Data

Subfield:	Civil and Building Services Engineering
Date first registered:	28 March 2018
Date this version registered:	28 March 2018
Anticipated review:	2023
Body responsible for review:	Namibia Training Authority