

	Unit ID: 28
Domain	BRICKLAYING AND PLASTERING
Title:	Lay Stone
Level: 3	Credits: 4

Purpose

This unit standard specifies the competencies required to select, prepare and lay stone to construct stone structures. It includes Identifying type, size, defects and function of stone. It incorporates the use of a variety of stone in freestanding walls, load bearing structural walls, veneer facing and garden walls and floor covering. 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 return stone wall that is 2m x 1m x 1m and floors covering minimum of 2mx2m 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. All inspection, operation and maintenance procedures associated with the use of construction tools and equipment shall comply with manufacturers' guidelines and instructions.

5. '*Specifications*' refers to any, or all of the following manufacturers' specifications and recommendations, site and 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: Identify type, size, defects and function of stone

Range

Tools and equipment may include but are not limited to measuring tape/rule, hammer, bolster, shovel, wheelbarrow, spirit level, trowels, jointing tools, screed boards and angle grinder.

Stone may include, but not be limited to, granite, sandstone, marble, basalt and other natural or manufactured stone material.

Performance Criteria

- 1.1 Common types of stone are identified.
- 1.2 Common terms, instructions and information relating are used to describe stone and work procedures.
- 1.3 Key features and orientation of patterns in stone work are identified.
- 1.4 Bed and face of stone association to fretting of stone are identified.

Element 2: Bed stone into mortar

Performance Criteria

- 2.1 Prepared stone selected appropriate to the job.
- 2.2 Mortar is prepared to a required mix ratio and spreaded or screeded to form a bed surface.
- 2.3 Ties, fixtures reinforcing are placed as required.
- 2.4 Stones are laid to line in sequence as required by the job.
- 2.5 Packers, wedges, mortar consistency, propping, shoring and forming structures are used to ensure correct joint size, plumb, level and shape.
- 2.6 Backing materials used in a manner consistent with job requirements.
- 2.7 Cavities maintained as required or specified.

Element 3: Place dry bed stone and grout

Performance Criteria

- 3.1 Appropriate floor stones are prepared and placed in a dry bed.
- 3.2 Joints prepared and grout poured gradually as required to fill voids.

Element 4: Erect dry stone structure

Performance Criteria

- 4.1 Stone are prepared or selected in a manner appropriate to the job.
- 4.2 Stones are laid to achieve maximum stability using chips, flat faces and battered angles, through stones, earth sods and clay.
- 4.3 Walling laid in a manner maximising the force of gravity as a stabilising element in structure.
- 4.4 Capping stone is laid as required by job.

Element 5: Fix slab stone using metal ties and adhesives

Range

Reinforcement may include wire strand, welded wire fabric, steel rods and mechanical ties and fixtures.

Admixtures may include plasticizers, water proofers, setting retardants, etc.

Performance Criteria

- 5.1 Prepared stone slabs fixed to metal or masonry surfaces using adhesives, cement mortar or plaster.
- 5.2 Stone sawn in accordance with specifications.
- 5.3 Metal ties and dowels used to secure stone slabs as required.
- 5.4 Bowel cavity filled with grout or slurry as required in job specification.

Element 6: Finish stone surfaces and joints

Performance Criteria

- 6.1 Stone surfaces finished as required by job specifications.
- 6.2 Joints cleaned and/or raked as required to achieve either final appearance or as preparation for pointing.
- 6.3 Pointing mortars or adhesives applied to joints as required by job specifications.

Registration Data

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