

Domain	BRICKLAYING	Unit ID: 27
Title:	Lay paving	
Level: 3		Credits: 4

Purpose

This unit standard specifies the competencies required to lay pavers on level and inclined surfaces. It includes preparing, setting out and laying of paving. 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 paving a level area of 3m x 3m with pavers, using sand as a bedding material on compacted crushed rock (closed finish with sand brushed in); and paving an area of 3m x 3m over a fall with bricks, incorporating control joints and using mortar as a bedding material on concrete (mortar joints finish). In performing each task 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 or an appropriate simulated realistic environment 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 recommendations, site and workplace specific requirements.
6. 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

Range

Planning and preparation is to include but is not limited to worksite inspection, equipment defect identification, assessment of conditions and hazards and determination of work requirements.

Tools and equipment are to include but are not limited to wheelbarrows, concrete mixers, buckets, hoses, shovels, rakes, brooms, measuring tapes/rules, hammers, rubber mallets, bolsters, spirit levels, trowels, mortar boards, straight edges, line blocks, line pins, builders lines, masonry saws, mason's squares, builder's squares, compactor, screed boards power leads, brick barrows and small petrol/diesel mixers.

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: Set out work area

Performance Criteria

- 2.1 Location and area of paving identified from plans and specifications.
- 2.2 Sub-soil and footing type is identified and classified according to standards.
- 2.3 Underground services are located and avoided throughout work process.
- 2.4 Location and shape of paving area is set out to dimensions from plans and specifications.

Element 3: Lay paving

Range

Materials are to include, but are not limited to paving materials, bedding materials, mortar and sand. Materials may include waterproofing materials.

Performance Criteria

- 3.1 Area is excavated to required depth, allowing for base and thickness of unit and specified finish level.
- 3.2 Drainage pipes are positioned in sub soil in accordance with regulatory authorities' requirements and plans and specifications.
- 3.3 Mortar for masonry paving is mixed to specifications and standards.
- 3.4 Base material is spread and compacted to specifications.
- 3.5 Bedding material is spread and screeded to designed level and alignment.
- 3.6 Edge boards are positioned to set out and specifications.
- 3.7 Paving surface is graded to fall evenly, without ponding, to outlets or surface run off system.
- 3.8 Initial starting line is determined and pavers are laid to line conforming to specified pattern.
- 3.9 Paving units/segments are cut and laid to designed pattern and specifications with joints to specifications and surface finish aligned.
- 3.10 Finished level is maintained across junctions between different finishes.
- 3.11 Paving installation is completed with joints finished to specifications.
- 3.12 Paving surface is cleaned on completion to specifications.

Element 4: Maintain paving

Performance Criteria

- 4.1 Paving is restored to match existing.
- 4.2 Paving is cleared, intending removal of slam.
- 4.5 Paving is seated in line with specifications.

Element 5: Clean up

Performance Criteria

- 5.1 Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations and job specifications.

- 5.2 Plant, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturers' recommendations and standard work practices.

Registration Data

Subfield:	General Construction
Date first registered:	28 September 2006
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Body responsible for review:	Namibia Training Authority