

Domain	PLUMBING	Unit ID: 451
Title:	Perform basic bricklaying and plastering and rendering tasks as part of plumbing operations	
Level: 2		Credits: 5

Purpose

This unit standard specifies the competencies required to perform basic bricklaying and rendering tasks as part of plumbing operations. It includes the selection, use and cleaning of hand tools, mixing of mortar, laying of bricks and applying basic plastering and rendering on plumbing works.

This unit standard is intended for those who work as plumbers.

Special Notes

1. Entry information:
 - Prerequisite
 - 434 - *Apply safety rules and regulations in plumbing operations or demonstrated equivalent knowledge and skills.*
2. Assessment evidence may be collected from a real workplace or simulated real workplace or an appropriate simulated realistic environment in which bricklaying operations are carried out on plumbing works, to include but not limited to man holes and underground pipe work.
3. Performance of all elements in this unit standard must comply with workplace specific requirements and manufacturers' instructions and/or recommendations.
4. 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.

Solid plastering materials and components may include corner beads, casing beads, render and setting coats mix composition (including additives like plasticisers, colour and waterproofing agents), sand lime, lime putty, plaster compounds and finish coats. Other materials may include flat marine ply, timber as selected and nails as selected.

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 are identified and applied in line with environmental plans and regulatory obligations.

Element 2: Mix mortar

Performance Criteria:

- 2.1 Materials for mortar are selected.
- 2.2 Mortar is mixed to specifications.

Element 3: Lay bricks

Performance Criteria:

- 3.1 Mortar bed is spread to provide even coverage of brick.
- 3.2 Brick is buttered to fully cover the brick.
- 3.3 First course is laid level and to line.
- 3.4 Return corner is built to plumb level and gauge.
- 3.5 Bricks are laid between corners in accordance with specifications.
- 3.6 Pointing is completed.
- 3.7 Wall is built with and without profiles.

Element 4: Prepare background surface

Range

Background surfaces may include concrete, concrete block work, brickwork, stonework, timber and wire mesh.

Wash coating may be applied using trowel or brush.

Bond coating may be applied using roller or brush.

Evidence of the preparation and cleaning of three different background surfaces is required for assessment purposes.

Performance Criteria

- 4.1 Background surface is identified and prepared.
- 4.2 Dash coat is mixed and applied as required.
- 4.3 Bonding coats are applied to specifications.

Element 5: Apply one coat plastering and rendering

Range

Rendering and finishing include but are not limited to straight walls and flat surfaces.

Performance Criteria

- 5.1 Screed lines or guides are established.
- 5.2 Plastering and rendering is applied and ruled off to screed.
- 5.3 Surface is checked for plumb and level.

Element 6: Apply two coat plastering and rendering

Performance Criteria

- 6.1 Screed line or guide is established.
- 6.2 First coat of plastering and rendering is applied and ruled to screed.
- 6.3 First coat is scrapped and cleaned for second coat.
- 6.4 Second coat is applied and ruled to screed.

Element 7: Clean up

Performance Criteria

- 7.1 Work area is cleared and materials disposed of, reused or recycled in line with legislation/regulations and job specifications.
- 7.2 Plant, tools and equipment are cleaned, checked, maintained and stored in line with manufacturers' recommendations and workplace procedures.

Registration Data

Subfield:	General Construction
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