

	Unit ID: 23
Domain	BRICKLAYING
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 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 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 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/or recommendations, site and/or 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.

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 bricks/blockwork

Performance Criteria

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

Element 3: 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

- 3.1 Mortar mix is prepared and checked for conformity and bricks/blocks are laid to specifications, standards and codes.
- 3.2 Base brickwork is constructed to specifications and requirements of standards and codes.
- 3.3 Steps are formed square, level, plumb and true and laid to specified bond.
- 3.4 Profile of steps is constructed to bond and design, aligned and plumb to specifications.
- 3.5 Parallel wing walls are formed to step alignment in accordance with specifications.
- 3.6 Jointing is carried out to job specifications.
- 3.7 Brickwork/blockwork is laid to line and set out with gauge and completed to job drawings, specifications standards and codes.
- 3.8 Brick/block faces are cleaned free of mortar.

Element 4: Clean up

Performance Criteria

- 4.1 Work area is cleared and materials disposed of, reused or recycled in accordance with legislation, regulations and job specifications.
- 4.2 Plant, tools and equipment are cleaned, checked, maintained and stored in accordance with manufacturers' recommendations and standard work practices.

Registration Data

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