

Domain	PLUMBING	Unit ID: 453
Title:	Carry out basic setting out as part of plumbing operations	
Level: 2		Credits: 4

Purpose

This unit standard is intended for those who carry out basic setting out as part of plumbing operations. People credited with this unit standard are able to plan and prepare for work, Identify site boundaries, set out first line of building alignment and Set out of profiles.

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

Special Notes

1. Entry information

Prerequisite:

- 434 - Apply Occupational Health and Safety in Working Environment.
- 440 – Plan and organise as part of plumbing operation or demonstrated equivalent knowledge and skills.

2. Setting out is restricted to basic rectangular structures.

3. Topography of the site is limited to flat sites.

4. Setting out may include completion of work as a member of a team.

5. To demonstrate competence, at a minimum, evidence is required of setting out a basic rectangular building on a level site to specifications. These tasks should be performed 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.

6. Assessment evidence may be collected from a real workplace or simulated real workplace or an appropriate simulated realistic environment in which plumbing operations are carried out.

7. Performance of all elements in this unit standard must comply with workplace specific requirements and manufacturers' instructions and/or recommendations.

8. Regulations and legislation relevant to this unit standard include the following:

- Labour Act No. 11 of 2007
- Regulations relating to the health & Safety of employees at work under Schedule 1 (2) of the Labour Act No.11 of 2007 and all subsequent amendments
- Local Authorities Act No. 23 of 1992
- Environmental Management Act No. 7 of 2007

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 are 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 that 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 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: Identify site boundaries

Performance Criteria

- 2.1 Survey beacons at corners of site are located and identified in accordance with job drawings and specifications.
- 2.2 Builder's lines are set accurately into position to identify boundaries on site in accordance with site plan and survey-beacons.

Element 3: Set out first line of building alignment

Performance Criteria

- 3.1 Measurements of building line from boundary are determined from site drawings.
- 3.2 Approximate position and length of line, plus building clearance measurement at each end, is determined for profile location in accordance with site plan and survey beacons.
- 3.3 Beacons and profiles are installed approximately level across and between one another with adequate provision to mark footing width on profile in accordance with job drawings and specifications.
- 3.4 Location for line is accurately marked with nails on profiles and line set out into position to true alignment with boundary in accordance with job drawings and specifications.

Element 4: Set out of profiles

Performance Criteria

- 4.1 Profiles are determined on set building line to true measurement from adjacent boundary and marked with beacons in accordance with job drawings and specifications.
- 4.2 Profiles are installed to approximate level of other profiles and line set to alignment with each other.

Registration Data

Subfield:	Civil and Building Services Engineering
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