

Domain	PLUMBING	Unit ID: 461
Title:	Select and fit insulation and sheathing as part of plumbing installations	
Level: 3		Credits: 4

Purpose

This unit standard specifies the competencies required to install insulating and sheathing on hot and cold piping, fittings and vessels as part of plumbing operations. It includes planning and preparing for work, determining insulation and sheathing requirements, installing insulation and sheathing, as well as cleaning up the work area.

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

Special Notes

1. Entry information:
 - Prerequisites
 - 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 plumbing operations are carried out.
3. Materials may include but are not limited to rock wool, fibreglass blankets and mastic.
4. Performance of all elements in this unit standard must comply with all relevant workplace requirements and/or manufacturers' specifications.
5. 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

Performance Criteria

- 1.1 Work instructions, including plans, specifications, quality requirements and operational details are obtained, confirmed and applied.
- 1.2 Health and safety requirements associated with the selection and installation of insulating sheathing, and the workplace environment, are adhered to throughout the work.
- 1.3 Quality assurance requirements are identified and adhered to in accordance with workplace procedures.
- 1.4 Tasks and equipment, including personal safety equipment, are selected and checked for serviceability.
- 1.5 Tools and equipment, including personal safety equipment, are selected and checked for serviceability.
- 1.6 Work area is prepared to support the efficient flashing of penetrations through roves and walls.

Element 2: Determine insulation and sheathing requirements

Performance Criteria

- 2.1 Insulation and sheathing materials are selected which comply with plans or specifications.
- 2.2 Quantity and type of materials required are calculated from plans or specifications.
- 2.3 Allowances for fabrication and assembly are determined.
- 2.4 Required materials are identified and ordered or collected in line with workplace procedures.
- 2.5 Materials are checked for compliance with docket or order form and for acceptable condition.

Element 3: Install insulation and sheathing

Performance Criteria

- 3.1 Surface is cleaned of dirt, rust, scale and grease.
- 3.2 Insulating and sheathing materials are installed in accordance with plans or specifications.
- 3.3 Where required, vapour barriers are applied to suit job requirements.

Element 4: Clean up work area

Performance Criteria

- 4.1 Work area is cleared and materials disposed of or recycled in line with State or Territory legislation and workplace procedures.
- 4.2 Tools and equipment are cleaned, checked, maintained and stored in accordance with workplace requirements.
- 4.3 Documentation is checked in line with workplace requirements.

Registration Data

Subfield:	General Construction
Date first registered:	15 November 2007
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Anticipated review:	2010
Body responsible for review:	Namibia Training Authority