

Unit of Competency CPCPMS3032

Select and fit insulation and sheathing

Application

This unit specifies the skills and knowledge required to install insulating sheathing on hot and cold piping, fittings and vessels. It includes the selection of insulation materials.

Site location for work application may be either domestic or commercial and may be a new work site or an existing structure being renovated, extended, restored or maintained.

In some jurisdictions, this unit of competency may form part of accreditation, licensing, legislative, regulatory or certification requirements.

Prerequisite Unit

CPCPCM2043 Carry out WHS requirements

Elements and Performance Criteria

1. Prepare for work.	<ul style="list-style-type: none">1.1 Access and read job plans and specifications.1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental requirements and sustainability associated with the installation of insulating sheathing.1.3 Apply quality assurance requirements in accordance with workplace requirements.1.4 Plan and sequence tasks in conjunction with others involved in or affected by the work and statutory and regulatory authorities' requirements.1.5 Prepare work area to support efficient installation of insulating sheathing.1.6 Select appropriate tools and equipment including personal protective equipment (PPE) and check for serviceability.1.7 Identify materials and equipment required to complete the task.
2. Identify insulation requirements.	<ul style="list-style-type: none">2.1 Create a materials list and collect materials.2.2 Determine fabrication requirements from job plans, specifications and relevant information.2.3 Calculate quantity and type of materials and components.
3. Install insulation.	<ul style="list-style-type: none">3.1 Clean and prepare surfaces of dirt, rust, scale and grease.3.2 Install insulating materials, including sheathing, according to plans and specifications.3.3 Select and install appropriate thermal insulation sheathing to sections of both hot and cold piping, fittings and vessels associated with refrigeration and cooling and heating systems3.4 Apply vapour barriers to suit job requirements.3.5 Apply sustainability principles and concepts throughout the installation.
4. Clean up.	<ul style="list-style-type: none">4.1 Clear the work area, and dispose of, reuse or recycle materials in accordance with state and territory legislation and workplace policies and procedures.4.2 Clean tools and equipment check for serviceability reporting any damage, store and secure.4.3 Complete documentation according to workplace requirements.

Foundation skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to CPCPMS3032A Select and fit insulation and sheathing.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCPMS3032

Select and fit insulation and sheathing

Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria for this unit by:

- locating, interpreting and applying relevant information, standards and specifications to selecting, installing, insulating sheathing to piping, fittings and vessels
- given the plans and specifications, insulating two metres of small-bore heating line with at least one change in direction
- applying safety requirements throughout the work sequence, including electrical safety requirements and the use of personal protective equipment (PPE)
- two metres of refrigeration line with metal sheath and at least one change in direction.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- processes of selecting and insulating pipes, fittings and vessels
- techniques for cutting, fabricating and assembling metal sheathing
- techniques for fixing insulating materials to piping
- understanding of fire rating
- processes of installing, insulating and testing ducting
- system types and identification of system components
- how to access relevant information, including codes and standards
- tools, materials and equipment used to select and fit insulation and sheathing
- work health and safety (WHS) requirements to select and fit insulation and sheathing.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>