



Australian Government

CPCPMS3033 Install small bore heating systems

Release: 3

CPCPMS3033 Install small bore heating systems

Modification History

- Release 3 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.5.
Amended Performance Criteria 3.3.
- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.2.
Correction to prerequisite unit code from CPCPCM2043A Carry out WHS requirements to CPCPCM2043 Carry out WHS requirements.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCPMS3033A Install small bore heating systems. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to install small bore hydronic heated water heating systems.

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

Pre-requisite Unit

CPCPCM2043 Carry out WHS requirements.

Unit Sector

Plumbing

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

- | | |
|---------------------------------|---|
| 1 Identify system requirements. | 1.1 Access, read and determine small bore heating installation requirements from job specifications, relevant Australian Standards, codes, manufacturer's specifications and jurisdictional requirements. |
|---------------------------------|---|

- 1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental requirements.
- 2 Prepare for work.
 - 2.1 Create a materials list and collect materials.
 - 2.2 Select and check the serviceability of appropriate tools and equipment including personal protective equipment (PPE).
 - 2.3 Prepare work area to support the efficient installation of small bore heating systems.
- 3 Install small bore heating systems.
 - 3.1 Set out system to comply with plans and specifications.
 - 3.2 Perform installation of fixings and support components.
 - 3.3 Pipe system is installed and jointed in compliance with plans, specifications and manufacturer requirements for mechanical type joints with a heating system.
 - 3.4 Test heating system and record details in the required format.
 - 3.5 Adjust heating system for correct operation and balance, including the setting of nominated temperature and adding appropriate inhibitor.
 - 3.6 Complete documentation according to relevant regulatory requirements and or workplace requirements.
- 4 Clean up.
 - 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 and report any damage, and store and secure.

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 CPCPMS3033A Install small bore heating systems.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>

Assessment Requirements for CPCPMS3033 Install small bore heating systems

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Performance Evidence

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

- installing a two-pipe heating system to two panel radiators, skirting convector or a unit heater, including:
 - using a combination of copper tube and non-metallic piping
 - a minimum of DN20 flow and return with DN15 branches connected to a heating source.

Knowledge Evidence

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

- characteristics, application and limitations of approved materials and components
- processes, procedures and techniques of:
 - effective isolation heating electrical systems
 - installing and commissioning small bore heating systems:
 - panel radiators
 - skirting convectors
 - boilers and heat exchanges
- under floor heating systems
- functional and operational features of hand and power tools and equipment including:

- hand and power tools
- heating and bending equipment
- lifting and load shifting equipment
- measuring equipment
- silver brazing equipment
- welding equipment
- how to access relevant information, including codes and standards
- tools, materials and equipment used to install small bore heating systems
- work health and safety (WHS) requirements to install small bore heating systems.

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

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