

Unit of Competency CPCPMS3041

Install domestic solid fuel burning appliances

Application

This unit specifies the skills and knowledge required to install domestic solid fuel burning appliances.

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

CPCPCM2055 Work safely on roofs

CPCCWC2001 Complete penetrations and flashings

Elements and Performance Criteria

1. Prepare for installation.	<ul style="list-style-type: none">1.1 Access, read and determine domestic solid fuel burning appliances 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.1.3 Inspect installation sites and confirm appliance installation locations as suitable or negotiate alternative locations with clients.1.4 Confirm heat sensitivities of building materials at appliance installation locations and confirm heat protection strategies with clients.1.5 Select and check the serviceability of the appropriate tools, equipment and personal protective equipment (PPE).
2. Install appliance.	<ul style="list-style-type: none">2.1 Measure and mark appliance location according to compliance requirements.2.2 Measure, cut or make up floor and wall protection materials and install according to compliance requirements.2.3 Position appliance and check clearance distances to confirm compliance.2.4 Install appliance according to compliance and organisational requirements.
3. Install flue.	<ul style="list-style-type: none">3.1 Check flue dimensions and components and obtain additional sections or components as required to meet compliance requirements.3.2 Calculate, measure, mark and check locations and dimensions of ceiling and roof penetrations according to compliance and organisational requirements.3.3 Make penetrations to host materials with minimal damage and according to specifications and organisational requirements.3.4 Install structural supports according to plans and specifications.3.5 Prepare opening in compliance with specifications, manufacturer recommendations and regulations.3.6 Install flue and associated components according to compliance and organisational requirements.3.7 Apply flashings and sealants to restore integrity of ceilings and roofs according to compliance and organisational requirements.

	3.8 Performance test penetration to ensure correct fit of completed installation, and take remedial action as required.
4. Finalise installation and clean up.	4.1 Install appliance and associated components and check for complete and correct installation and operation according to compliance and organisational requirements. 4.2 Demonstrate operation of appliance to clients and explain factors that affect optimum performance. 4.3 Restore installation site and 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 not equivalent to CPCPMS3041A Install domestic solid fuel burning appliances.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPMS3041 Install domestic solid fuel burning appliances

Performance Evidence

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

- installing at least two different domestic solid fuel burning appliances according to client, compliance, workplace and manufacturer requirements. Appliances may be for:
 - central heating
 - cooking
 - space heating
 - water heating
- a combination of applications, which includes:
 - fireplace inserts
 - free-standing
 - in-built
 - non-tested
- installing flue and associated flashings through a tiled and metal roof system.

Knowledge Evidence

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

- factors affecting selection of installation locations for appliances
- factors affecting compliance and non-compliance of domestic solid fuel burning appliances
- factors affecting optimum performance:
 - general cleaning and maintenance requirements
 - type and condition of fuel used in appliances
- heat damage protection requirements for appliances:
 - compliant floor protection
 - compliant clearance distances
 - additional shielding
 - reduced compliant clearance distances
- legislation, regulations and standards that apply to the installation and emissions of domestic solid fuel burning appliances
- heat-response categories of construction materials:
 - heat sensitive
 - heat tolerant
 - heat resistant
- installation requirements for different types of domestic fuel burning appliances:
 - appliances for:
 - central heating
 - cooking
 - space heating
 - water heating
 - combinations of applications

- o fireplace inserts
 - o free-standing
 - o in-built
 - o non-tested
 - o tested
- principles and products of combustion
- requirements and methods for maintaining structural integrity of buildings, roof structures and existing roof coverings
- structure and function of flue elements and principles of flue draw, and effects of:
 - o bends and horizontal sections
 - o climatic conditions
 - o surrounding buildings and trees
- types of domestic solid fuel burning appliances and methods for safe operation
- types and condition of wood used as fuel and impacts on:
 - o efficiency of appliances
 - o emissions
- compliance requirements:
 - o clearance distances to heat sensitive materials:
 - o ceilings
 - o curtains
 - o furniture
 - o timbers
 - o walls
 - o emissions compliance certification plate
 - o manufacturer specifications
 - o types and dimensions of floor protection.

Assessment Conditions

Assessors must satisfy the requirements for assessors listed 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:

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