

# Unit of Competency CPCPGS3049

## Install gas appliance flues

### Application

This unit specifies the skills and knowledge required to install and test flues for gas appliances in accordance with relevant regulatory authority and jurisdictional requirements.

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

CPCPCM3021 Flash penetrations through roofs and walls

### Elements and Performance Criteria

1. Identify installation requirements.	<p>1.1 Access, read and determine flue installation requirements from job specifications, relevant Australian Standards, codes, manufacturer's specifications and jurisdictional requirements.</p> <p>1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental requirements.</p>
2. Prepare for work.	<p>2.1 Create a materials list and collect materials.</p> <p>2.2 Select appropriate tools and equipment, including personal protective equipment (PPE).</p>
3. Install and test flue.	<p>3.1 Set out and install flue, supports, components and weatherproofing according to job specifications and complying with relevant Australian Standards, codes, manufacturer's specifications and jurisdictional requirements.</p> <p>3.2 Test flue for operation and adjust as required.</p> <p>3.3 Complete documentation according to regulatory requirements and workplace procedures.</p>
4. Clean up.	<p>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.</p> <p>4.2 Clean tools and equipment, check for serviceability and report any damage, and store and secure.</p>

### 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 CPCPGS3049A Install Type A gas appliance flues.

## Links

Companion Volume Implementation Guide:

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

# Assessment Requirements for CPCPGS3049 Install gas appliance flues

## Performance Evidence

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

- installing, testing and flashing as required:
  - o a fan-assisted flue
  - o a natural draft flue
  - o a mild steel flue from a boiler flue spigot to terminate above the roofline.

## Knowledge Evidence

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

- properties of gas, gas safety, combustion principles, pressure and flow rates
- types of approved flues for appliances, including:
  - o balanced
  - o individual appliance
  - o multiple flues
  - o natural draft
  - o twin wall flues
- how to access relevant information, including codes and standards
- tools, materials and equipment used for the installation and testing of gas appliance flues
- work health and safety (WHS) requirements for the installation and testing of gas appliance flues.

## 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

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