



**Australian Government**

# **CPCPMS3035 Install and test ducting systems**

**Release: 2**

# CPCPMS3035 Install and test ducting systems

## Modification History

- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.  
Typographical error corrected in Element and Performance Criteria 3.4.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.  
Supersedes and is equivalent to CPCPMS3035A Install and test ducting systems. Updated to meet the Standards for Training Packages 2012.

## Application

This unit specifies the skills and knowledge required to install and test ducting systems used for ventilation systems, heating and/or cooling systems, and exhaust 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 installation requirements. | 1.1 Access, read and determine install and test ducting systems 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 serviceability of appropriate tools, equipment and personal protective equipment (PPE).                                                                |
| 3 Install and insulate duct system. | 3.1 Set out system to comply with plans and specifications.                                                                                                                 |
|                                     | 3.2 Position duct supports and fixings to comply with plans, job requirements and manufacturer's specifications.                                                            |
|                                     | 3.3 Install duct work in accordance with plans and specifications.                                                                                                          |
|                                     | 3.4 Assemble and seal joints in accordance with plans and manufacturer's specifications.                                                                                    |
|                                     | 3.5 Install duct system in specified location without damage or distortion to surrounding environment or other services and in accordance with relevant standards.          |
|                                     | 3.6 Install insulation materials in specified location without damage or distortion to surrounding environment or other services and in accordance with relevant standards. |
|                                     | 3.7 Install diffusers and terminal devices in accordance with plans and specifications and job requirements.                                                                |
| 4 Test duct work.                   | 4.1 Determine test requirements from plans and specifications.                                                                                                              |
|                                     | 4.2 Select and test duct work under pressure in accordance with instructions and workplace procedures.                                                                      |
|                                     | 4.3 Identify and repair leaks using specified procedures and materials to ensure correct flow operation.                                                                    |
|                                     | 4.4 Complete documentation according to relevant regulatory requirements and or workplace requirements.                                                                     |
| 5 Clean up.                         | 5.1 Clear the work area, and dispose of, reuse or recycle materials in accordance with state and territory legislation and workplace policies and procedures.               |
|                                     | 5.2 Clean tools and equipment, check for serviceability and                                                                                                                 |

report any damage, and store and secure according to workplace procedures.

## **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 CPCPMS3035A Install and test ducting 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 CPCPMS3035 Install and test ducting systems

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## 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 install and test small ducting systems
- installing, insulating, testing and balancing ductwork from a fan coiled unit to three outlet grilles given the plans and specifications.

The installation must incorporate hard and flexible duct work, including one transition piece and air control dampers.

## Knowledge Evidence

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

- application of flow rates, pressure and volume principles to testing procedures
- characteristics of materials used in the system being tested
- processes of installing, insulating and testing ducting
- system types and identification of system components
- techniques for setting out, assembling, fixing and jointing duct work systems and components, including insulation and acoustic materials
- types of repairs for detected leaks in the duct work system
- how to access relevant information, including codes and standards
- tools, materials and equipment used to install and test ducting systems
- work health and safety (WHS) requirements to install and test ducting 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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<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>