



Australian Government

Assessment Requirements for CPCPMS4022 Commission air and water systems

Release: 2

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Modification History

- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.
Knowledge Evidence formatted for clarity.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
Supersedes and is equivalent to CPCPMS4022A Commission air and water systems. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

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

- an air conditioning system (up to 150 megajoules) for a domestic installation
- a commercial air conditioning system for a structure of at least four floors
- a hydronic water heating system for a structure of at least four floors.

The performance applies to:

- ducting systems for air conditioning, heating or ventilation purposes in buildings Class 1 or 2 with a maximum static pressure of 0.75 kPa and a maximum velocity of 12.5 metres per second
- piping systems conveying heating and chilled water operating at a maximum pressure of 700 kPa or a maximum temperature of 100°C
- systems having a maximum output of 50 kW and total air quantities not exceeding 950 litres per second.

Knowledge Evidence

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

- application of mechanical, hydraulic, electric and electronic principles and safety requirements
- design concepts, tests and performance standards for measuring various water and air systems
- SI system of measurements
- effect of bacteria in water and potential impact on health
- waste management

- operating principles and characteristics of system components used in water and air systems
- performance standards for balancing systems
- processes of commissioning air and water systems
- relevant statutory authorities:
 - Commonwealth government
 - state and territory governments
 - local authorities
- how to access relevant information, including codes and standards
- tools, materials and equipment used to commission air and water heating and cooling systems
- work health and safety (WHS) requirements for commissioning air and water heating and cooling.

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