



Australian Government

CPCPMS4022 Commission air and water systems

Release: 2

CPCPMS4022 Commission air and water systems

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.

Application

This unit specifies the skills and knowledge required to test and commission air and water heating and cooling 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.

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| 1 Prepare for work. | 1.1 Obtain current authorised information, plans and specifications. |
| | 1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental requirements and sustainability principles. |
| | 1.3 Select and check the serviceability of appropriate tools, equipment and personal protective equipment (PPE). |

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| | 1.4 | Prepare work area to support an efficient testing and commissioning process. |
| 2 Determine testing requirements. | 2.1 | Check equipment performance data against plans, specification requirements and other relevant information. |
| | 2.2 | Select suitable instruments and associated equipment to measure quantities. |
| 3 Prepare system for balancing. | 3.1 | Set dampers in the open or specified position and conduct an operational check of system-related fans and ducting according to workplace procedures. |
| | 3.2 | Energise automatic control devices to provide maximum demand for airflow. |
| | 3.3 | Check piping system for flow direction and leaks and conduct an operational check of system and related pumps. |
| | 3.4 | Set all manual and automatic valves in the specified position. |
| 4 Balance, test and commission system. | 4.1 | Adjust valves or throttling devices to achieve specified water flow ratings. |
| | 4.2 | Measure air volumes moved by system fans. |
| | 4.3 | Adjust dampers and terminal devices to achieve specified airflow ratings. |
| | 4.4 | Set automatic controls and devices to specified settings. |
| | 4.5 | Test and balance system according to job specification, manufacturer recommendations and sustainability principles and concepts. |
| | 4.6 | Test and monitor results and document in the format required by job or manufacturer's specification. |
| | 4.7 | Complete documentation according to workplace requirements and submit within specified timeframes. |

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| 5 | Restore work area. | 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. |

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 CPCPMS4022A Commission air and water 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>