

Unit of Competency CPCPMS3036

Install air handling units

Application

This unit specifies the skills and knowledge required to install and test air heating, cooling and ventilation plenums or enclosures.

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

Elements and Performance Criteria

1. Identify installation requirements.	<p>1.1 Access, read and determine install air handling unit 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 and check serviceability of appropriate tools, equipment and personal protective equipment (PPE).</p>
3. Set out, assemble and test air handling units.	<p>3.1 Set out air handling unit in compliance with plans and specifications.</p> <p>3.2 Position components and equipment according to plans and specifications.</p> <p>3.3 Install equipment according to job and manufacturer specifications.</p> <p>3.4 Check assembly for compliance with plans and specifications.</p> <p>3.5 Test air handling unit for correct operation.</p> <p>3.6 Complete documentation according to relevant regulatory requirements and/or workplace requirements.</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 according to workplace procedures.</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 CPCPMS3036A Install air handling units.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPMS3036 Install air handling units

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 installing air handling units
- installing a plenum chamber that includes a fan, coil, filter and dampers, including supports and brackets and any fixing requirements, allowing for anti-vibration.

Knowledge Evidence

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

- effects of machinery vibrations on structures, ducts and fittings
- processes of installing and testing air handling unit
- techniques for setting out, assembly and fixing and jointing requirements for duct work systems
- equipment installation techniques that limit the transfer of vibrations from plant and equipment to other component
- testing, balancing and commissioning of air handling units
- how to access relevant information, including codes and standards
- tools, materials and equipment used to install air handling units
- work health and safety (WHS) requirements to install air handling units

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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