

Unit of Competency CPCPMS3038

Install air conditioning control equipment

Application

This unit specifies the skills and knowledge required to install air conditioning control equipment for the control of pressure, temperature, flow rate, humidity and density.

Site location for work application may be either domestic or commercial and may be a new work site or an existing structure being renovated, extended, restored or maintained

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. Prepare for work.	<ul style="list-style-type: none">1.1 Access and read job plans and specifications.1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental requirements.1.3 Apply quality assurance requirements in accordance with workplace requirements.1.4 Plan and sequence tasks in conjunction with others.1.5 Prepare work area to support efficient installation of air conditioning control equipment.1.6 Select appropriate tools and equipment including personal protective equipment (PPE) and check for serviceability.1.7 Identify materials and equipment required to complete the task.
2. Identify system requirements.	<ul style="list-style-type: none">2.1 Create a materials list and collect materials2.2 Identify fabrication requirements from job plans, specifications and relevant information.2.3 Calculate quantity and type of materials and components.
3. Install control equipment.	<ul style="list-style-type: none">3.1 Shut down and isolate air conditioning system according to appropriate codes of practice and WHS requirements.3.2 Install control equipment to job specification or manufacturer's instructions and report faults, as required.3.3 Position control equipment in specified location without damage or distortion to surrounding environment or other services.3.4 Calibrate control equipment according to manufacturer recommendations and job specifications.3.5 Check correct operation of system control equipment against operational specification.
4. Clean up.	<ul style="list-style-type: none">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.4.2 Clean tools and equipment, check for serviceability reporting any damage, 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 CPCPMS3038A Install air conditioning control equipment.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPMS3038 Install air conditioning control equipment

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 conditioning control equipment
- given the plans and specifications, installing a control valve, a thermostat and flow, pressure and limit switches for an air conditioning system.

Knowledge Evidence

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

- effective electrical isolation processes and procedures
- operating principles of air conditioning and refrigeration systems
- power and maintenance access requirements for control units
- process of installing and testing air conditioning control equipment
- how to access relevant information, including codes and standards
- tools, materials and equipment used to install air conditioning control equipment
- work health and safety (WHS) requirements to install air conditioning control equipment.

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.

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