

Unit of Competency CPCPFS3034

Install control valve assemblies, actuating devices and local alarms

Application

This unit of competency specifies the skills and knowledge required to install control valve assemblies, actuating devices and local alarms for fire protection systems in commercial, industrial and residential settings, including new or existing structures.

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.	1.1 Obtain, read and apply control valve devices and alarm requirements from relevant job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements. 1.2 Identify and apply workplace policies and procedure, 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 the serviceability of appropriate tools and equipment, including personal protective equipment (PPE). 2.3 Prepare work area to support efficient installation.
3. Install and test system components.	3.1 Set out and install pipe supports and fixings. 3.2 Connect control valve assemblies, components, devices, alarms, piping and materials. 3.3 Apply jointing systems. 3.4 Pressure test installed system. 3.5 Set and confirm operation of all components, including alarm generation. 3.6 Complete documentation according to relevant regulatory requirements.
4. Clean up.	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 CPCPFS3034A Install control valve assemblies, actuating devices and local alarms.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPCPFS3034

Install control valve assemblies, actuating devices and local alarms

Performance Evidence

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

- installing and testing a:
 - o wet control valve assembly with water motor alarm and automatic jacking pump
 - o deluge control valve assembly
 - o double interlock pre-action control valve assembly
 - o combined riser control valve assembly including flow switch and solenoid test loop.

Knowledge Evidence

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

- relevant control valve assemblies, actuating devices and local alarms in fire sprinkler systems
- legislation, relevant job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements
- processes, procedures and techniques of:
 - o installing control valve, actuating and alarm components in sprinkler systems
 - o pressure testing systems
 - o pipe jointing including threading and roll grooving
- functions and operations of the following valves and their components:
 - o wet alarm valves and systems
 - o deluge alarm valves and systems
 - o dry alarm valves and systems
 - o pre-action and double interlock pre-action alarm valves and systems
 - o solenoid test loops
 - o water motor alarms
 - o jacking pumps
 - o pressure switches
 - o flow switches
 - o pressure gauges
 - o butterfly valves
 - o OS&Y valves
 - o ball valves
 - o check valves
 - o strainers
 - o inspection tees
- how to access relevant information, including relevant job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements

- tools, materials and equipment used for connecting control valve assemblies, actuating devices and local alarms
- work health and safety (WHS) requirements for connecting control valve assemblies, actuating devices and local alarms
- installation requirements for connecting control valve assemblies, actuating devices and alarms.

Assessment Conditions

Assessors must satisfy the requirements for assessors listed 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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