



Australian Government

CPCPFS3045 Fit off sprinkler heads, controls and ancillary equipment

Release: 2

CPCPFS3045 Fit off sprinkler heads, controls and ancillary equipment

Modification History

- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 9.0.
- Changes to Performance Evidence and Knowledge Evidence.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCPFS3045A Fit off sprinkler heads, controls and ancillary equipment. Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the skills and knowledge required to install sprinkler heads, system controls and ancillary equipment for sprinkler fire protection systems. The installation involves work on a new and existing structure.

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.
1 Identify installation requirements.	1.1 Obtain, read and apply sprinkler head and control requirements from relevant job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements. 1.2 Identify and apply workplace policies and procedures, work health and safety (WHS) and environmental

requirements.

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| | 1.3 | Identify class of sprinkler system and associated design data from system design specifications. |
| 2 Prepare for work. | 2.1 | Create a materials list and collect materials. |
| | 2.2 | Select and check the serviceability of appropriate tools, equipment and personal protective equipment (PPE). |
| | 2.3 | Select components and prepare work area to support efficient installation of sprinkler heads, system controls and ancillary equipment. |
| 3 Install sprinkler heads and ancillary equipment. | 3.1 | Set out system following plans, specifications and job instructions. |
| | 3.2 | Attach fixings and pipe supports. |
| | 3.3 | Install sprinkler heads, system components and ancillary equipment. |
| | 3.4 | Isolate system and drain it down to allow connection without causing water damage, then recharge when altering existing systems. |
| | 3.5 | Complete documentation following quality and work 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 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 CPCPFS3045A Fit off sprinkler heads, controls and ancillary equipment.

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>

Assessment Requirements for CPCPFS3045 Fit off sprinkler heads, controls and ancillary equipment

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Performance Evidence

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

- installing sprinkler heads, controls, and ancillary equipment in both a new and existing system including:
 - three different sprinkler heads with three different escutcheon assemblies: two hard piped drop; one flexible tube assembly, installed and branched according to manufacturer's specifications
 - a mechanical flow switch, incorporating a test arrangement
 - two pressure switches, one pressure switch used for rising pressure alarm and one used for a fall in pressure loop
- producing a plan containing four sprinkler heads spaced according to Ordinary Hazard III
- rectifying a tenancy floor plan that includes:
 - two new sprinkler heads
 - two relocated sprinkler heads
 - two deleted sprinkler heads.

Knowledge Evidence

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

- legislation, regulations, standards and codes relating to fitting off sprinkler heads, controls and ancillary equipment:
- processes, procedures and techniques of:
 - fitting off sprinkler heads, controls and ancillary equipment

- levelling and alignment for installing pipework associated with sprinkler heads, controls and ancillary equipment
- general fire protection systems terminology
- characteristics, application and limitations of different approved materials and components
- design requirements, functions and limitations of the following components:
 - sprinkler heads of at least 6 different types
 - escutcheon plates
 - flexible tube assemblies and their mounting brackets
 - pressure switches
 - flow switches
 - pipe supports and anchors
 - pipe jointing techniques including threading and roll grooving
- functional and operational features of tools and equipment used to fit off sprinkler heads, controls and ancillary equipment
- materials storage and environmentally responsible waste disposal relating to installation of sprinkler heads, controls and ancillary equipment
- how to access relevant information including, job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements.
- tools, materials and equipment used for installing sprinkler heads, system controls and ancillary equipment for sprinkler fire protection systems
- work health and safety (WHS) requirements for installing sprinkler heads, system controls and ancillary equipment for sprinkler fire protection systems
- installation requirements for installing sprinkler heads, system controls and ancillary equipment for sprinkler fire protection systems.

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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