



**Australian Government**

# **CPCSFS5010 Provide documentation and support for fabrication of fire sprinkler systems**

**Release: 1**

# CPCSFS5010 Provide documentation and support for fabrication of fire sprinkler systems

## Modification History

- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCSFS5010A Provide documentation and support for fabrication of fire sprinkler systems. Updated to meet the Standards for Training Packages 2012.

## Application

This unit of competency specifies the outcomes required to assess issues relating to on-site installation of pipework for sprinkler systems. The unit also involves producing specifications and supporting documentation for the cost-effective fabrication of manageable pipework sections.

This unit of competency supports the role of fire systems designers with responsibility for creating specifications and drawings for the fabrication of pipework sections for fire sprinkler systems.

In some jurisdictions, this unit of competency may form part of accreditation, licensing, legislative, regulatory or certification requirements.

## Pre-requisite Unit

Nil.

## Unit Sector

Plumbing and Fire Services

## Elements and Performance Criteria

| Elements describe the essential outcomes.                                          | Performance criteria describe what needs to be done to demonstrate achievement of the element.                           |
|------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1 Determine the impact on fabrication plans of installation risks and constraints. | 1.1 Identify on-site work health and safety (WHS) risks relating to the installation of sprinkler systems.               |
|                                                                                    | 1.2 Identify constraints relating to access to on-site installation locations for sprinkler system pipes and components. |

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|----------------------------------------------------|-----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                                    | 1.3 | Consider impact of installation risks and constraints on fabrication plans for fire sprinkler system pipes and components and determine cost-effective and manageable solutions. |
| 2 Plan and specify pipes, fittings and components. | 2.1 | Obtain and analyse current accurate drawings and documentation, and take measurements on-site during construction if possible, to confirm the accuracy of building dimensions.   |
|                                                    | 2.2 | Check and confirm the dimensions and design drawing locations of the selected fittings and components.                                                                           |
|                                                    | 2.3 | Plan and specify fittings and components for ease and safety of installation and to provide cost-effective solutions.                                                            |
|                                                    | 2.4 | Calculate, specify and number pipe lengths on relevant drawings.                                                                                                                 |
|                                                    | 2.5 | Review and apply efficiency and cost effectiveness of relevant pipe materials, pipe fitting methodologies for design.                                                            |
| 3 Produce fabrication documentation.               | 3.1 | Confirm and specify appropriate pipe materials and features.                                                                                                                     |
|                                                    | 3.2 | Consult supplier as necessary to discuss and negotiate efficient and cost-effective pipe fabrication options.                                                                    |
|                                                    | 3.3 | Number and detail individual pipe specifications on fabrication lists.                                                                                                           |
|                                                    | 3.4 | Supply drawings to support fabrication specifications, as required.                                                                                                              |

## 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 CPCSFS5010A Provide documentation and support for fabrication of fire sprinkler 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>