



Australian Government

CPCSFS5008 Create detailed designs for fire detection and warning systems

Release: 1

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Modification History

- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCSFS5008A Create detailed designs for fire detection and warning systems. Updated to meet the Standards for Training Packages 2012.

Application

This unit specifies the skills and knowledge required to obtain, process and set up drawings for the detailed design of fire detection and warning systems low to high-rise buildings over 25 metres and 50 metres in height.

The unit involves assessing and selecting component requirements, setting out the locations of components and creating final notated drawings.

This unit of competency supports the role of fire systems' designers with responsibility for creating detailed designs for fire detection and warning systems.

The role may involve interaction with fire engineers, architects, builders, suppliers, clients and relevant planning authorities and requires a sound understanding of applicable legislation, standards and codes, including the National Construction Code (NCC).

Licensing, legislative, regulatory or certification requirements may apply to this unit, requirements should be confirmed with the relevant government body.

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.

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| 1 Set up fire systems design drawings. | 1.1 Request and obtain project drawings and documentation and name and file according to workplace procedures. |
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| | 1.2 | Clean drawings to leave minimal essential information. |
| | 1.3 | Import layers showing designs of other services into clean architectural or structural drawings. |
| | 1.4 | Add details from drawings of the floor level above, if these affect the design. |
| | 1.5 | Process detailed design drawings according to workplace procedures. |
| 2 Lay out the fire systems design. | 2.1 | Determine the exact location of the fire detection and warning system and notate on the drawing. |
| | 2.2 | Determine the most efficient and workable layout and location of fire detection and warning systems components and notate on the drawing. |
| | 2.3 | Calculate and check dimensions and notate on the drawing. |
| 3 Specify component capacities and characteristics. | 3.1 | Complete electrical calculations to assess requirements and confirm cable ranges. |
| | 3.2 | Specify components which are most suitable to the application. |
| | 3.3 | Design and specify electronic interfaces with other services. |
| | 3.4 | Prepare system performance requirements and commissioning procedures and specifications according to relevant codes and standards and component manufacturer's recommendations, workplace and project requirements. |
| 4 Submit drawings for approval and finalise design process. | 4.1 | Submit fire detection and warning system design drawings to relevant personnel within the scheduled timeframe. |
| | 4.2 | Make or negotiate required amendments to design drawings as required. |

- 4.3 Process and distribute final approved design drawings according to project requirements.

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 CPCSFS5008A Create detailed designs for fire detection and warning 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>