



Australian Government

CPCSFS5005 Research and evaluate fire system technologies and components

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 CPCSFS5005A Research and evaluate fire system technologies and components. Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the outcomes required to research, evaluate and select existing, new and incoming technologies and components for fire system detection and suppression systems. The unit also involves developing a broad understanding of the range of products available and their application, operation, performance and interaction.

This unit of competency supports the work of fire systems' designers and certifiers who need to:

- understand the characteristics, operation and interaction of fire system technologies and components
- select and assess fire system technologies and components.

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.

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| 1 | Research and evaluate fire suppression | 1.1 | Research and identify the range of technologies and components for fire suppression systems. |
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- systems.
- 1.2 Assess the suitability of fire suppression systems to different types of buildings and situations with reference to relevant legislation, codes and standards and client requirements.
 - 1.3 Determine the performance characteristics and limitations of fire suppression systems.
 - 1.4 Analyse fire suppression system failures and propose appropriate design solutions.
 - 1.5 Select suitable and cost-effective fire suppression system technologies and components for buildings, situations and climatic conditions.
- 2 Research and evaluate fire detection and occupant warning systems.
- 2.1 Identify technologies and components available for fire detection and occupant warning systems.
 - 2.2 Assess the suitability of fire detection and occupant warning systems to different types of buildings and situations with reference to relevant legislation, codes and standards.
 - 2.3 Determine the performance characteristics and limitations of fire detection and occupant warning systems.
 - 2.4 Select suitable and cost-effective fire detection and occupant warning system technologies and components for buildings and situations.
- 3 Analyse and specify the interaction of fire systems.
- 3.1 Analyse and specify the required interactions for effective operation of fire systems in different types of buildings and situations.
 - 3.2 Identify and examine the interfaces that affect interactions between fire systems in different types of buildings and situations.
 - 3.3 Select suitable fire detection and suppression systems for buildings and situations and specify the interactions and interfaces required for effective performance.

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 CPCSFS5005A Research and evaluate fire system technologies and components.

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>