



Australian Government

Assessment Requirements for CPCPFS4022 Commission and maintain special hazard fire suppression systems

Release: 2

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Modification History

- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.
- Changes to Foundation Skills. Typographical error corrected in Elements and Performance Criteria 4.2.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCPFS4022A Commission and maintain special hazard fire suppression systems. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

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

- locating, interpreting and applying relevant information, standards and specifications to testing and commissioning special hazard fire suppression systems
- applying safety requirements throughout the work sequence, including electrical safety requirements and the use of personal protective clothing and equipment
- testing and commissioning one special hazard fire suppression system (not prescribed ODS or SGG extinguishing agent), being a gaseous, chemical or fluid-based system; and inspect, test and maintain one prescribed ODS or SGG system, ensuring:
 - application of sustainability principles and concepts
 - correct identification of location, design specification and details of proposed service
 - correct selection and use of appropriate processes, tools and equipment
 - completion of all work to specification
 - compliance with regulations, standards and organisational quality procedures and processes
 - communicating and working effectively and safely with others.

Knowledge Evidence

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

- work health and safety are to be according to commonwealth, state and territory legislation and regulations:
 - handling of materials

- hazard control
- personal protective clothing and equipment prescribed under legislation, regulations and workplace policies and practices
- safe operating procedures, including recognising and preventing hazards associated with:
 - electricity
 - hazardous materials and substances
 - other machines
 - surrounding structures and facilities
 - trip hazards
 - underground services
 - use of tools and equipment
 - work site visitors and the public
 - working at heights
 - working in confined spaces
 - working in proximity to others
- use of firefighting equipment
- use of first aid equipment
- workplace environment and safety
- environmental requirements cover water quality management:
 - clean-up protection
 - complying with ODS and SGG legislation, codes and regulations, e.g. Ozone Protection and Synthetic Greenhouse Gas Management Act 1989
 - preventing emissions of prescribed ODS and SGG extinguishing agents
 - stormwater protection
 - waste management
- materials:
 - actuating devices
 - alarms
 - control valve assemblies
 - unplasticised polyvinyl chloride (PVC-U), steel or copper pipes or other approved materials
 - special hazard fire suppression agents, including prescribed ODS and SGG materials
 - sprinkler heads
- special hazard fire suppression systems:
 - carbon dioxide and other gases (such as inergen and argonite)
 - chemical reaction and explosion suppression systems
 - dry chemical
 - foam
 - prescribed ODS and SGG extinguishing agents (such as halon and NAF S-III)

- water
- water mist
- information:
 - charts and hand drawings
 - instructions issued by authorised organisational or external personnel
 - job drawings
 - manufacturer specifications and instructions
 - material safety data sheets (MSDS)
 - memos
 - organisation work specifications and requirements
 - plans and sketches
 - regulatory and legislative requirements, particularly those pertaining to:
 - building codes
 - WHS and environmental requirements, including ODS and SGG legislation, codes and regulations
 - plumbing regulations
 - relevant Australian standards, including AS2118 Automatic fire sprinkler systems and AS1851 Maintenance of fire protection systems and equipment
 - safe work procedures relating to testing and commissioning special hazard fire suppression systems
 - signage
 - verbal, written and graphical instructions
 - work bulletins
 - work schedules, plans and specifications.

Assessment Conditions

Assessors must meet the requirements for assessors contained 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

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>