



Australian Government

Assessment Requirements for CPCPFS3036 Install special hazard systems

Release: 3

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Modification History

- Release 3 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.5.
- Sprinkler and delivery systems removed from the Knowledge Evidence.
 - The word 'purging' replaced by 'cleaning' in the Knowledge Evidence.
- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.1.
- Change to Elements and Performance Criteria 2.3.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCPFS3036A Install special hazard systems. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

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

- installing a special hazards fire suppression system (not prescribed ozone depleting substances (ODS) or synthetic greenhouse gases (SGG) extinguishing agent), incorporating a storage cylinder connected by piping to a simple distribution system incorporating two nozzles and one actuating device
- complying with ODS or SGG legislation, codes and regulations
- decommissioning a gaseous system comprising of at least three cylinders and prepare the cylinders for transport
- correctly selecting and using tools and equipment used for installation of gaseous agent containers and actuation devices.

Knowledge Evidence

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

- ODS and SGG legislative and industry requirements for special hazard fire suppression systems installation activities
- characteristics, application and limitations of approved materials and components used in special hazardous systems actuating devices:
 - prescribed ODS and SGG materials
 - extinguishing agents, including or other approved materials

- pipes
- hazard categories, classes of fire hazard and extinguishing agents
 - workplace and safety including dangerous goods
 - transportation of dangerous goods
- processes, procedures and techniques of:
 - installing and testing special hazard systems
 - pressure test systems
 - cylinder anchorage
 - cleaning
- relevant statutory and authorities' requirements related to installing special hazard systems:
 - requirements for room ventilation and integrity
 - structural systems, building materials and building services
- functional and operational features of tools and equipment used to install special hazard systems:
 - cutting and threading equipment
 - roll grooving equipment
 - hand and power tools
 - ladders
 - testing equipment
- types of special hazard extinguishing systems:
 - carbon dioxide - high and low pressure
 - naturally occurring blended gasses (Proinert, Argonite, Inergen)
 - chemical reaction and explosion suppression systems
 - dry chemical
 - foam
 - prescribed ODS and SGG extinguishing agents
 - deluge
 - water mist
- types of operation of actuation devices (also known as actuators):
 - electrical
 - manual
 - mechanical
 - pneumatic
- special hazard system components, including:
 - directional valves
 - lock off valves
 - pyrotech actuators
 - nozzles
 - manifolds

- hoses
- cylinders
- cylinder manifold brackets
- pressure relief vents
- dirt traps
- bracketing and pipe supports
- foam generators
- foam monitors
- foam proportioning equipment
- foam indicators
- aspirating foam nozzles
- foam storage vessels, including bladder tanks
- relevant documentation required when installing special hazard systems
- how to access relevant information, including relevant job plans and specifications, codes, Australian Standards, manufacturer's specifications and jurisdictional requirements for installation of special hazard systems
- tools, materials and equipment used for installation of special hazard systems
- work health and safety (WHS) requirements for installation of special hazard systems
- installation requirements for installation of special hazard 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

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>