



Australian Government

Assessment Requirements for CPPFES2025

Inspect, test and maintain gaseous fire-suppression systems

Release: 1

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Modification History

- Release 1 This version first released with CPP Property Services Training Package Release 13.0.
- Supersedes and is equivalent to CPPFES2025A Inspect, test and maintain gaseous fire-suppression systems. Unit updated to meet the Standards for Training Packages 2012. Updated licensing statement.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by inspecting, testing and maintaining two gaseous fire-suppression systems installed in different settings.

Knowledge Evidence

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

- action to take when a breach of work health and safety (WHS), ozone depleting substances (ODS) and synthetic greenhouse gases (SGG) regulation or other policy occurs when inspecting, testing and maintaining gaseous fire-suppression systems
- difference between total flooding and local application systems
- difference between various types of extinguishing gaseous agents used in gaseous fire-suppression systems
- extent to which pressures and liquid levels in extinguishing agent containers vary according to temperature change
- fire-suppressant action of gaseous agents in terms of smothering, cooling and reacting chemically with the fire radical
- how building structures, services and service penetrations within and through protected area enclosures influence the holding time of gaseous agents
- industry best-practice methods used to isolate actuators to prevent ODS and SGG emissions in the workplace
- key features of legislation, regulations, codes and Australian Standards relevant to inspecting, testing and maintaining gaseous fire-suppression systems:
 - container handling, movement and transport requirements
 - extinguishing agent handling licence (EAHL) requirements
 - environmental protection, ODS and SGG emission requirements
 - maintenance schedules
 - records and documentation

- occupational hazards of gaseous agents in terms of:
 - no observable adverse effect level (NOAEL)
 - lowest observable adverse effect level (LOAEL)
 - products of combustion from fire and products of decomposition associated with some gaseous agents when extinguishing a fire
- operating principles of:
 - lock-off, directional and pressure-release valves
 - pneumatic and mechanical actuators interfaced with gaseous systems
 - fire alarm components interfaced with gaseous fire-suppression systems
 - gaseous agent discharge nozzles
- operation of different types of equipment used to store and release gaseous extinguishing agent
- pressures generated during release of gaseous agents, pressure rating requirements of pipework and fittings, and the need for adequate support bracing
- reasons and methods for preventing ODS and SGG emissions in the workplace
- types of gaseous fire-suppression agents and how they extinguish fire, including concentration and holding time requirements
- types and operating principles of gaseous fire-suppression systems:
 - total flooding
 - local application
 - engineered and pre-engineered
- types and purpose of tools, equipment and testing devices used when inspecting, testing and maintaining gaseous fire-suppression systems:
 - actuator simulators
 - barcode readers
 - container contents-measuring equipment
 - fire equipment spare parts:
 - aerosol test smoke
 - anti-tamper seals
 - clamps
 - service tags
 - hand and power tools
 - manual-handling aids
 - personal protective equipment (PPE)
 - scales
- workplace requirements for inspecting, testing and maintaining gaseous fire-suppression systems:
 - maintenance of tools and equipment
 - WHS, including hazard and risk identification and control.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to drawings, documentation, tools, equipment and installed gaseous fire-suppression systems required to achieve the performance evidence.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>