

## Unit of Competency

### CPPFES3032 Conduct enclosure integrity testing

#### Modification history

| Release | Comments  |
|---------|---|
| 1       | Supersedes and is equivalent to CPPFES3032A Conduct enclosure integrity testing. Unit updated to meet the Standards for Training Packages 2012. This version first released with CPP Property Services Training Package Release 13.0. |

#### Application

This unit of competency specifies the skills and knowledge required to test the integrity of enclosures protected by total flooding gaseous agent fire-suppression systems. It includes working safely, conducting compliance tests, visually inspecting and identifying non-compliance defects, fulfilling mandatory reporting requirements and general isolations and resetting associated with gaseous fire-suppression systems. Tests are conducted according to the relevant Australian Standard for the inspection, testing and preventive maintenance of the installed gaseous fire-suppression system.

A person who has achieved this unit of competency would be expected to take responsibility for organising and completing these tasks with a high degree of self-direction.

Licensing, legislative, regulatory or certification requirements apply to this unit of competency in some states and territories. For further information, check with the relevant regulatory authority.

#### Unit Sector

Fire Protection Inspection and Testing

#### Elements and Performance Criteria

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| 1. Plan and prepare for service operation. | <ul style="list-style-type: none"><li>1.1 Interpret work instructions to clarify service timeframes, client needs, and gaseous fire-suppression system type, application and location.</li><li>1.2 Discuss planned service procedures with relevant persons to clarify client needs and expectations.</li><li>1.3 Plan work activities to comply with relevant Australian Standards, regulatory, work health and safety (WHS) and workplace requirements.</li><li>1.4 Identify potential and actual breaches of rules and regulations associated with work instructions and take required action to ensure compliance according to regulatory and workplace requirements.</li><li>1.5 Select and use required tools and equipment, including personal protective equipment (PPE).</li><li>1.6 Arrange access to worksite and communicate with responsible entity and affected persons to advise duration and impact of planned service procedures and to ensure alternative safety arrangements are implemented.</li><li>1.7 Identify and prepare to control hazards in the work area according to workplace requirements.</li></ul> |
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| 2. Conduct inspections and isolations. | <p>2.1 Identify gaseous agent fire-suppression system controls and determine functions according to manufacturer requirements.</p> <p>2.2 Isolate plant and other system interfaces according to manufacturer and regulatory requirements.</p> <p>2.3 Conduct visual inspections and checks according to relevant Australian Standards and workplace requirements.</p> <p>2.4 Record inspection results according to regulatory and workplace requirements.</p>   |
| 3. Conduct integrity testing.          | <p>3.1 Set up integrity testing equipment in readiness to conduct tests according to manufacturer requirements and site configuration.</p> <p>3.2 Conduct enclosure testing procedures to verify correct functioning of gaseous fire-suppression system according to manufacturer and Australian Standard requirements.</p> <p>3.3 Perform measurements and calculations to verify integrity of enclosure protection, including agent retention time, agent loss and total leakage area.</p> <p>3.4 Record test results and assign pass or fail according to the Australian Standard for the installed gaseous fire-suppression system.</p> |
| 4. Finalise service operation.         | <p>4.1 Reinstate gaseous fire-suppression system and check to confirm it is fully operational according to manufacturer and workplace requirements.</p> <p>4.2 Complete service records and report outstanding defects and recommended rectifications according to Australian Standards, regulatory and workplace requirements.</p> <p>4.3 Check tools and equipment for faults, wear or damage and rectify or report problems according to workplace requirements.</p> <p>4.4 Leave client premises in a clean and tidy condition.</p>   |

### 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 CPPFES3032A Conduct enclosure integrity testing.

### Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

## Assessment Requirements for CPPFES3032 Conduct enclosure integrity testing

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### Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by conducting enclosure integrity testing on each of the following types of enclosures where total flooding gaseous agent protection is installed and a doorway is fitted:

- computer room
- electrical switch room
- machinery space in a vessel.

### Knowledge Evidence

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

- action to take when a breach of regulation, work health and safety (WHS) or other policy occurs when conducting enclosure integrity testing of total flooding gaseous agent fire-suppression systems
- features of gaseous agent fire-suppression systems, testing equipment and testing parameters:
  - gaseous agent hold time
  - general operation of a fan test unit
  - installation of equipment
  - operation of equipment
- implications of not complying with regulatory requirements when conducting enclosure integrity testing
- key features of legislation, regulations, codes and Australian Standards relevant to enclosure integrity testing of total flooding gaseous agent fire-suppression systems:
  - extinguishing agent handling licence (EAHL) requirements
  - maintenance schedules
  - pass or fail requirements for gaseous fire extinguishing systems against AS 4214 *Gaseous fire extinguishing systems* (or its successor): 10 minute/100 mm against highest protected risk
  - records and documentation
- meaning of common integrity testing terminology:
  - agent loss
  - agent recirculation
  - descending interface (height)
  - highest protected risk (minimum protected equipment height)
  - retention time

- o total leakage area
  - o upper and lower leaks
- workplace requirements for conducting enclosure integrity testing:
  - o maintenance of tools and equipment
  - o 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 documentation, tools, testing devices, equipment and enclosures with total flooding gaseous agent protection required to achieve the performance evidence.

### Links

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