

Unit of Competency

CPPFES3024 Inspect and maintain portable foam-generating equipment

Modification history

Release	Comments
1	Supersedes and is equivalent to CPPFES3024A Inspect and maintain portable foam-generating equipment. 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 inspect and maintain a range of foam-generating equipment and hose reel foam units. It includes hose reel foam unit installations. Service activities are conducted in accordance with relevant Australian Standards and the National Construction Code (NCC).

The unit does not cover any installation, maintenance, replacement or repair functions that are restricted to licensed trades or occupations.

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

1. Plan and prepare for service operation.	<ul style="list-style-type: none">1.1 Interpret work instructions to clarify types of foam-generating equipment and hose reel foam units to be serviced, service timeframes and equipment locations.1.2 Discuss planned service procedures with relevant persons to clarify client needs and expectations.1.3 Plan work activities to comply with relevant Australian Standards, NCC, regulatory, work health and safety (WHS) and workplace requirements.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.1.5 Select and use required tools and equipment, including personal protective equipment (PPE).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.1.7 Identify and prepare to control hazards in the work area according to workplace requirements.
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2. Inspect, install and maintain hose reel foam units.	2.1 Inspect hose reel foam unit and installation area to confirm compliance with the relevant Australian Standard and NCC requirements. 2.2 Install hose reel foam unit according to manufacturer, regulatory and workplace requirements. 2.3 Maintain hose reel foam unit according to relevant Australian Standard and manufacturer requirements.
3. Inspect and maintain portable foam-generating equipment.	3.1 Collect foam concentrate samples from concentrate container to send to an approved test laboratory. 3.2 Inspect foam-generating equipment to identify faults or defects according to manufacturer requirements. 3.3 Maintain foam-generating equipment according to manufacturer and workplace requirements. 3.4 Report, repair or replace defective equipment according to manufacturer and workplace requirements.
4. Finalise service operation.	4.1 Complete service records and report outstanding defects, non-compliances and recommended rectifications according to Australian Standards, regulatory and workplace requirements. 4.2 Check tools and equipment for faults, wear or damage and rectify or report problems according to workplace requirements. 4.3 Leave client premises in a clean and tidy condition.

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 CPPFES3024A Inspect and maintain portable foam-generating equipment.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPPFES3024 Inspect and maintain portable foam-generating equipment

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by servicing portable foam-generating equipment, including:

- inspection and maintenance of:
 - one hand-held foam branch pipe
 - one hose reel foam unit
 - one mobile unit foam generator
 - one portable in-line foam inductor
 - one portable monitor
- installation of one hose reel foam unit.

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 inspecting and maintaining portable foam-generating equipment
- characteristics of effective foam
- classification and purpose of each type of foam
- difference between portable and fixed foam systems
- foam suitability for different fire types and typical uses
- how foam is generated and can be used to extinguish a fire
- how to determine amount of foam concentrate required to be added to a tank for correct mix, given volume of water in a tank and foam concentrate percentage
- how to determine storage requirements, shelf life and storage temperature range from a given foam concentrate safety data sheet (SDS)
- implications of not complying with regulatory requirements when inspecting and maintaining portable foam-generating equipment
- features and function of major items of foam-generating equipment
- key features of legislation, regulations, codes and Australian Standards relevant to inspecting and maintaining portable foam-generating equipment:
 - environmental considerations relating to foams
 - National Construction Code (NCC) and deemed-to-satisfy requirements
 - maintenance schedules
 - records and documentation
- meaning of foam percentages

- principles of operation of:
 - portable foam-generating equipment
 - portable foam proportioning equipment and in-line proportioning equipment:
 - in-line inductors
 - inflatable bladder proportioning
 - positive displacement pump proportioning
 - around-the-pump proportioning
- purpose of inductors
- reason and methodology for collecting foam concentrate samples from a concentrate storage container
- types and purpose of tools, equipment and components used when inspecting and maintaining portable foam-generating equipment:
 - hand and power tools
 - personal protective equipment (PPE)
 - spectrometer
- workplace requirements for inspecting and maintaining portable foam-generating equipment:
 - 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 documentation, tools, equipment and foam-generating equipment required to achieve the performance evidence.

Links

Companion Volume Implementation Guide:

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