Unit of Competency

CPPFES3045 Install gaseous agent containers and actuators

Modification history

Release	Comments
1	Supersedes and is equivalent to CPPFES3045A Install gaseous agent containers and actuators. 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 receive and install gaseous agent containers, manifold connections, actuators and activating mechanisms at client premises. Gaseous agent containers may contain extinguishing agents which are ozone depleting substances (ODS) and synthetic greenhouse gases (SGG).

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.

ODS and SGG are gaseous fire-extinguishing agents listed in Schedule 1 of the Ozone Protection and Synthetic Greenhouse Gas Management Act 1989 and by law, can only be handled by people who hold an appropriate extinguishing agent handling licence (EAHL). This unit supports one or more EAHLs prescribed under the Act. For further information, check with the relevant regulatory authority.

Unit Sector

Fire Protection Inspection and Testing

Elements and Performance Criteria

1. Apply rules and regulations to installation operation.	1.1 Interpret work instructions to clarify types of gaseous agent containers and actuators to be installed, installation timeframes and site location. 1.2 Discuss planned installation procedures with relevant persons to clarify client needs and expectations. 1.3 Plan work activities to prevent ODS and SGG emissions and comply with relevant Australian Standards, ODS and SGG regulations, 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.
2. Receive system components.	2.1 Check procurement details and specifications of system components and materials against final design documentation and installation drawings.

	2.2 Check pre-tested or prefabricated components to ensure they have correct documentation identifying compliance with relevant Australian Standards. 2.3 Conduct quality control checks of materials and components to confirm acceptable condition, and report or rectify identified defects according to workplace requirements.
3. Prepare to install gaseous agent containers and actuators.	3.1 Arrange access to worksite and communicate with responsible entity and affected persons to advise duration and impact of planned installation procedures. 3.2 Identify and control hazards in the work area according to workplace requirements. 3.3 Select and use required materials, tools and equipment, including personal protective equipment (PPE). 3.4 Select and assemble required tools, equipment, materials and hardware components at installation site according to workplace requirements. 3.5 Check cylinders to ensure they contain correct quantities of extinguishing agent according to installation specifications. 3.6 Conduct checks to confirm safety measures are in place prior to the installation process according to workplace requirements.
4. Install gaseous agent containers and actuators.	4.1 Fix support systems, components and fittings according to final design documentation and installation drawings. 4.2 Support containers and fix support frame according to installation drawings and manufacturer requirements. 4.3 Install container manifold and connection components according to manufacturer requirements. 4.4 Remove transport caps, discharge outlet and actuator plugs or caps and locking devices according to manufacturer and workplace requirements. 4.5 Physically check flexible hose connections to ensure they are tight and without kinks. 4.6 Install manual and pneumatic actuators, pilot and slave tubes and fittings safely according to manufacturer and workplace requirements. 4.7 Check pilot and slave tube connections to ensure they are tight and without kinks. 4.8 Set actuators to operate according to manufacturer and regulatory requirements.
5. Finalise installation operation.	5.1 Complete installation documentation according to Australian Standards, manufacturer, regulatory and workplace requirements. 5.2 Check tools and equipment for faults, wear or damage and rectify or report problems according to workplace requirements. 5.3 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 CPPFES3045A Install gaseous agent containers and actuators.

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPPFES3045 Install gaseous agent containers and actuators

Modification history

Release	Comments
1	Supersedes and is equivalent to CPPFES3045A Install gaseous agent containers and actuators. Unit updated to meet the Standards for Training Packages 2012. This version first released with CPP Property Services Training Package Release 12.0.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by installing gaseous agent containers and actuators in two 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 installing gaseous agent containers and actuators
- implications of not complying with regulatory requirements when installing gaseous agent containers and actuators
- key features of legislation, regulations, codes and Australian Standards relevant to installing gaseous agent containers and actuators:
    - environmental protection
    - extinguishing agent handling licence (EAHL) requirements
    - intent of the Australian Standard for the maintenance of fire protection systems and equipment in relation to the installation of gaseous agent containers and actuators
    - National Construction Code (NCC) and deemed-to-satisfy requirements
    - records and documentation
- methods and reasons for preventing ODS and SGG emissions
- methods for commissioning installed gaseous agent containers and actuators
- operating principles of actuators, activating mechanisms, discharge valve assembly and manifold connection components
- purpose of auxiliary shutdown fire system and equipment
- purpose of safety devices and transport caps
- types and purpose of electrical safeguards used to protect persons and property when installing gaseous agent containers and actuators
- types and purpose of system components and materials used when installing gaseous agent containers and actuators
- types and purpose of tools, equipment and materials used when installing gaseous agent containers and actuators:
    - gas leakage test equipment
    - manual-handling aids for transporting containers
    - personal protective equipment (PPE)
    - plumbing-related hand tools, such as shifters and Stillsons

    - power tools: battery-powered drills and hammer drills
    - scales
- workplace requirements for installing gaseous agent containers and actuators:
    - maintenance of tools and equipment
    - quality
    - 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 installation drawings and documentation, materials, tools, equipment, gaseous agent containers and actuators and installation sites required to achieve the performance evidence.

Links

Companion Volume Implementation Guide:

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