

Inspect and Test

FPAS Units of Competencies – descriptions

FPAS incorporates the following units of competency across ten (10) categories of 'inspect and test' activities.

CPPCMN2002A	Participate in workplace safety arrangements
CPPFES2003A	Safely move loads and dangerous goods
CPPFES2004A	Identify types of installed fire safety equipment and systems
CPPFES2005A	Demonstrate first attack firefighting equipment
CPPFES2006A	Prepare for installation and servicing operations
CPPFES2010A	Inspect and test fire hose reels
CPPFES2011A	Install portable fire extinguishers and fire blankets
CPPFES2020A	Conduct routine inspection and testing of fire extinguishers and fire blankets
CPPFES2025A	Inspect, test and maintain gaseous fire-suppression systems
CPPFES2026A	Inspect and test emergency and exit lighting systems
CPPFES2027A	Inspect, test and maintain non-gaseous pre-engineered fire-suppression systems
CPPFES2029A	Conduct functional tests on fire detection, warning and intercommunication devices
CPPFES2035A	Identify, inspect and test fire and smoke doors
CPPFES2037A	Inspect and test fire hydrant systems
CPPFES2039A	Identify, inspect and test passive fire and smoke containment products and systems
CPPFES2043A	Prevent ozone depleting substance and synthetic greenhouse gas emissions
CPPFES2047A	Inspect and test control and indicating equipment
CPCPFS3020A	Conduct basic functional testing of water-based fire-suppression systems
CPCPFS3021A	Inspect and test fire pumpsets
CPCPFS3022A	Conduct annual functional testing of complex water-based fire-suppression systems
CPCPFS3023A	Conduct functional water flow testing.

CPPCMN2002A Participate in workplace safety arrangements

This unit covers the outcomes required to ensure own safety and that of others in the workplace. It also covers recognising hazards and following workplace emergency procedures.

Tasks

1. Follow workplace procedures for hazard identification and risk control.
2. Participate in arrangements for managing occupational health and safety (OHS).
3. Follow emergency procedures in workplace.

CPPFES2003A Safely move loads and dangerous goods

This unit covers the outcomes required for fire protection equipment technicians to safely move materials, loads and dangerous goods in the workplace in such a way as to avoid injuries to self and others, and prevent damage to product, property and the environment.

Work in this area must be completed according to relevant legislative, industry, customer and

organisational requirements, including policies and procedures relating to occupational health and safety (OHS), and ozone depleting substance (ODS) and synthetic greenhouse gas (SGG) emissions.

The unit supports one or more extinguishing agent handling licences prescribed under the Ozone Protection and Synthetic Greenhouse Gas Management Act 1989.

Tasks

1. Use manual-handling techniques to move loads and materials.
2. Use mechanical-handling aids to move loads and materials.
3. Adhere to regulatory requirements for moving and transporting dangerous material.

CPPFES2004A Identify types of installed fire safety equipment and systems

This unit covers the outcomes required to accurately identify fire safety equipment and systems and their function. Work in the area of identification must be completed according to relevant legislative, industry, customer and organisational requirements, including occupational health and safety (OHS) policies and procedures.

Tasks

1. Identify range of first response equipment.
2. Identify fire hydrant systems.
3. Identify passive products and systems.
4. Identify fire pumpsets.
5. Identify automatic fire-suppression systems.
6. Identify electrical life safety equipment and systems.
7. Recognise and report on installed fire safety equipment and systems.

CPPFES2005A Demonstrate first attack firefighting equipment

This unit covers the outcomes required to demonstrate the use of portable fire extinguishers, fire hose reels and fire blankets.

Tasks

1. Demonstrate correct use of portable fire extinguishers to extinguish simulated fires.
2. Demonstrate correct use of fire hose reels.
3. Demonstrate correct use of fire blanket.

CPPFES2006A Prepare for installation and servicing operations

This unit covers the outcomes required for a service technician in the field to select and use tools and equipment to install and service fire protection equipment, systems and products. It also covers access to information given in relevant Australian standards to carry out servicing procedures. Knowledge of the legal and regulatory framework relating to installation and servicing operations is required, as all preparatory work must be completed according to relevant legislative, industry and organisational requirements, including policies and procedures relating to occupational health and safety (OHS), ozone depleting substances (ODS) and synthetic greenhouse gases (SGG).

The unit supports one or more extinguishing agent handling licences prescribed under the Ozone Protection and Synthetic Greenhouse Gas Management Act 1989.

Tasks

1. Apply rules and regulations to service operations.
2. Use Australian standards to access information in relation to installation and servicing procedures for fire protection equipment.
3. Manage service vehicle.
4. Prepare work area for installation or servicing procedure.
5. Identify, select and use tools and equipment effectively to perform installation and servicing procedures on fire protection equipment.

CPPFES2010A Inspect and test fire hose reels

This unit covers the outcomes required to inspect and test fire hose reels at a customer's premises, and replace hoses and drums as required. The replacement procedures apply to existing risers fitted with a control valve.

Tasks

1. Apply rules and regulations to service operations.
2. Inspect and test fire hose reels.
3. Replace fire hoses and drums as required.

CPPFES2011A Install portable fire extinguishers and fire blankets

This unit covers the outcomes required to install portable fire extinguishers and fire blankets at a customer's premises.

Tasks

1. Apply rules and regulations to installation operations.
2. Install portable fire extinguishers.
3. Install portable fire extinguisher and fire cabinet combinations.
4. Install fire blankets.
5. Finalise work.

CPPFES2020A Conduct routine inspection and testing of fire extinguishers and fire blankets

This unit covers the outcomes required to conduct routine monthly, six-monthly and yearly inspections and testing of fire extinguishers and fire blankets at a customer's premises.

Tasks

1. Apply rules and regulations to service operations.
2. Inspect and test fire extinguishers.
3. Inspect fire blankets.
4. Finalise servicing operations.

CPPFES2025A Inspect, test and maintain gaseous fire-suppression systems

This unit specifies the outcomes required to complete mechanical inspection, testing and maintenance tasks on installed gaseous fire-suppression systems.

Work in this area must be completed according to relevant legislative, industry, customer and organisational requirements, including policies and procedures relating to occupational health and safety (OHS), and where

needed, to ozone depleting substances (ODS) and synthetic greenhouse gases (SGG) emissions.

The unit supports one or more extinguishing agent handling licences prescribed under the Ozone Protection and Synthetic Greenhouse Gas Management Act 1989.

This unit does not cover all the requirements of AS 1851 Maintenance of fire protection systems and equipment.

Tasks

1. Apply rules and regulations to service operations.
2. Research layout and components of gaseous fire-suppression system to be inspected.
3. Prepare to inspect, test and maintain gaseous fire-suppression systems.
4. Inspect and test installed gaseous fire-suppression system.
5. Conduct preventive maintenance on installed gaseous fire-suppression system.
6. Reinstate installed gaseous fire-suppression system.

CPPFES2026A Inspect and test emergency and exit lighting systems

This unit specifies the outcomes required to inspect and test installed emergency and exit lighting systems at customers' premises.

Work in this area must be completed according to relevant legislative, industry, customer and organisational requirements, including occupational health and safety (OHS) policies and procedures.

The fire protection technician is not permitted to undertake any functions restricted to licensed trades or occupations.

Tasks

1. Apply rules and regulations to service operations.
2. Inspect and test single point systems.

CPPFES2027A Inspect, test and maintain non-gaseous pre-engineered fire-suppression systems

This unit covers the outcomes required to inspect, test and maintain non-gaseous pre-engineered fire-suppression systems.

Tasks

1. Prepare for inspection, testing and maintenance.
2. Inspect and survey installed non-gaseous pre-engineered fire-suppression systems.
3. Test an installed non-gaseous pre-engineered fire-suppression system.
4. Maintain and repair an installed non-gaseous pre-engineered fire-suppression system.

CPPFES2029A Conduct functional tests on fire detection, warning and intercommunication devices

This unit specifies the outcomes required to complete routine yearly inspect, test and preventive maintenance procedures to verify that fire detection, warning and intercommunication devices are functioning as intended.

The unit involves working safely, isolating plant and interfaces, conducting compliance tests, visually inspecting, identifying non-compliance defects, fulfilling mandatory reporting requirements and resetting fire control and indicating equipment (CIE).

The service technician is not permitted to undertake any installation, replacement, maintenance and

repair functions that are restricted to licensed trades or occupations (subject to relevant state or territory regulations).

Tasks

1. Apply compliance requirements to service operations.
2. Conduct inspections and record results.
3. Conduct testing and record results.
4. Conduct preventive maintenance and record results.

CPPFES2035A Identify, inspect and test fire and smoke doors

This unit covers the outcomes required to identify, inspect and test the operation of installed fire and smoke doors. Inspection and testing of hinged fire and smoke doors must be completed according to relevant legislative, industry and organisational requirements, including occupational health and safety (OHS) policies and procedures.

The passive fire protection technician is not permitted to undertake any installation, replacement, maintenance or repair functions that are restricted to licensed trades or occupations (subject to relevant state and territory regulations).

Tasks

1. Apply rules and regulations to service operations.
2. Identify a variety of fire and smoke doors and their components.
3. Inspect and test fire and smoke doors.
4. Complete inspection.

CPPFES2037A Inspect and test fire hydrant systems

This unit specifies the outcomes required to complete six-monthly and yearly inspections and test procedures to verify that hydrant systems function as intended. The unit involves working safely, conducting compliance tests, visually inspecting, identifying non-compliance defects, fulfilling mandatory reporting requirements, as well as isolating and resetting the hydrant system.

The service technician is not permitted to undertake any installation, replacement, maintenance and repair functions that are restricted to licensed trades or occupations (subject to relevant state and territory regulations).

Tasks

1. Apply rules and regulations to service operations.
2. Inspect fire hydrant system.
3. Conduct testing and record results.

CPPFES2039A Identify, inspect and test passive fire and smoke containment products and systems

This unit covers the outcomes required to inspect and test passive fire and smoke containment installations and systems in a variety of settings. This unit covers the skills and knowledge required to be able to access, interpret and comply with relevant information contained in standards and legislation in order to carry out inspection and testing procedures relating to passive fire and smoke containment.

Adequate knowledge and appropriate use of industry terminology is expected, and all preparatory work must be completed according to relevant legislative, industry and organisational requirements, including occupational health and safety (OHS) policies and procedures.

The passive fire service technician is not permitted to undertake any installation, replacement, maintenance and repair functions that are restricted to licensed trades or occupations (subject to relevant state and territory regulations).

Tasks

1. Apply rules and regulations to service operations.
2. Identify passive fire and smoke containment installations and systems.
3. Inspect and test passive fire and smoke containment.
4. Complete inspection.

CPPFES2043A Prevent ozone depleting substance and synthetic greenhouse gas emissions

This unit specifies the outcomes required to identify and describe agreements, protocols, legislation, regulations, codes of practice and handling licences developed to reduce ozone layer depletion and global warming. The unit supports one or more fire protection industry extinguishing agent handling licences (EAHL) prescribed under the Ozone Protection and Synthetic Greenhouse Gas Management Act 1989.

Tasks

1. Apply rules and regulations to the use of ODS and SGG extinguishing agents.
2. Identify ODS and SGG handling licences, trading authorisations and usage permits.
3. Apply an understanding of ozone layer depletion and global warming.

CPPFES2047A Inspect and test control and indicating equipment

This unit covers the outcomes required to complete routine monthly and six-monthly inspect and test procedures to verify that control and indicating equipment (CIE) for a fire alarm system functions as intended. The unit involves working safely, isolating and resetting CIE, conducting compliance tests, visually inspecting, identifying non-compliance defects, and fulfilling mandatory reporting requirements.

The unit supports one or more extinguishing agent handling licences (EAHL) prescribed under the Ozone Protection and Synthetic Greenhouse Gas Management Act 1989. Licence to practise: The skills and knowledge described in this unit do not require an electrical licence or an Australian Communications and Media Authority cabling licence to practise.

Service technicians are not permitted to undertake any installation, replacement, maintenance and repair functions that are restricted to licensed trades or occupations (subject to relevant state and territory regulations).

Tasks

1. Plan to conduct routine monthly or six-monthly inspect and test operations on CIE.
2. Inspect CIE.
3. Test CIE.
4. Report findings of inspection and testing.

CPCPFS3020A Conduct basic functional testing of water-based fire-suppression systems

This unit covers the outcomes required to complete weekly, monthly, and six-monthly inspection and testing procedures to verify that water-based fire-suppression systems function as intended. The unit involves working safely, isolating plant and interfaces, conducting compliance tests, visually inspecting, identifying non-compliance defects, fulfilling mandatory reporting requirements, and resetting water-based fire-suppression systems. The fire protection technician is not permitted to undertake any installation, replacement, maintenance and repair functions that are restricted to licensed trades or occupations (subject to relevant state or territory regulations).

Prerequisite units are required for this unit.

- Either CPCPCM2023A Carry out OHS requirements
- **OR BOTH:** CPPCMN2002A Participate in workplace safety arrangements, and CPPFES2006A Prepare for installation and servicing operations.

Tasks

1. Apply compliance requirements to service operations.
2. Conduct inspections and record results.
3. Conduct testing and record results.

CPCPFS3021 A Inspect and test fire pumpsets

This covers the outcomes required to complete weekly, monthly, and six-monthly inspection and testing procedures to verify that fire pumpsets function as intended. The unit covers working safely, conducting compliance tests, visually inspecting, and identifying non-compliance defects. It involves mandatory reporting requirements, as well as general isolations and resetting fire pumpsets.

The fire protection technician is not permitted to undertake any installation, replacement, maintenance and repair functions that are restricted to licensed trades or occupations (subject to relevant state or territory regulations).

Prerequisite units are required for this unit.

- Either CPCPCM2023A Carry out OHS requirements,
- **OR BOTH:** CPPCMN2002A Participate in workplace safety arrangements, and CPPFES2006A Prepare for installation and servicing operations.

Tasks

1. Apply compliance requirements to service operations.
2. Conduct inspections and record results.
3. Conduct tests and record results.

CPCPFS3022A Conduct annual functional testing of complex water-based fire-suppression systems

This unit covers the outcomes required to complete annual inspection and testing procedures to verify that complex water-based fire-suppression system equipment functions as intended. The unit involves working safely, isolating and resetting water-based fire-suppression systems, conducting compliance tests, visually inspecting, identifying non-compliance defects, and fulfilling mandatory reporting requirements.

The service technician is not permitted to undertake any installation, replacement, maintenance and

repair functions that are restricted to licensed trades or occupations (subject to relevant state or territory regulations).

Prerequisite units are required for this unit.

- Either CPCPCM2023A Carry out OHS requirements,
- **OR BOTH:** CPPCMN2002A Participate in workplace safety arrangements, and CPPFES2006A Prepare for installation and servicing operations.

Tasks

1. Apply compliance requirements to service operations.
2. Conduct inspections and record results.
3. Conduct testing and record results.

CPCPFS3023A Conduct functional water flow testing

This unit covers the outcomes required to complete functional water flow proving and load tests on water-based fire-suppression systems. The unit covers working safely while conducting water flow testing. It involves satisfying mandatory reporting requirements as well as general isolations and resetting the water-based fire-suppression system.

The fire protection technician is not permitted to undertake any installation, replacement, maintenance and repair functions that are restricted to licensed trades or occupations (subject to relevant state or territory regulations).

Prerequisite units are required for this unit.

- Either CPCPCM2023A Carry out OHS requirements,
- **OR BOTH:** CPPCMN2002A Participate in workplace safety arrangements, and CPPFES2006A Prepare for installation and servicing operations

Tasks

1. Apply compliance requirements to service operations.
2. Prepare system and equipment to conduct functional water flow proving test.
3. Conduct functional water flow proving and load test, and record results.