# Unit of Competency CPCSFS5015 Prepare documentation for annual fire systems inspections

## Application

This unit of competency supports annual inspections of fire systems. The unit of competency specifies the outcomes required to research the applicable regulatory requirements for existing fire systems in all types of buildings and to assess compliance documentation to determine whether requirements are met.

In some jurisdictions, this unit of competency may form part of accreditation, licensing, legislative, regulatory or certification requirements.

## Prerequisite Unit

CPCSFS5014 Conduct annual fire systems inspections

## Elements and Performance Criteria

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| 1. Determine the installation dates for fire systems. | 1.1 | Access, interpret and document the construction dates and modification histories of buildings to be inspected. |
| | 1.2 | Identify the types of fire systems installed in buildings to be inspected from compliance documentation. |
| | 1.3 | Identify the installation dates for individual fire systems in buildings to be inspected. |
| 2. Research and interpret the applicable codes and standards. | 2.1 | Research and identify the current and historical legislation, codes and standards applicable to individual fire systems at the time of installation, or modification of the building. |
| | 2.2 | Research and interpret the detailed requirements of applicable historical legislation, codes and standards and fire engineered solutions. |
| | 2.3 | Document and report any disparity between historical legislation, codes and standards applicable and fire engineered solutions applicable at the installation or modification date and current fire safety requirements to relevant stakeholders. |
| | 2.4 | Prepare checklists and notes on applicable current and historical codes and standards to assist the annual inspection process. |
| 3. Assess and report on fire system compliance documentation. | 3.1 | Review and check schedules for the inspection, testing and maintenance of fire safety systems for compliance with current regulatory requirements. |
| | 3.2 | Review and check documentation for regular fire systems inspection and testing activities for currency and completeness. |
| | 3.3 | Identify and note information regarding non-compliance issues and defects. |
| | 3.4 | Request and review documentary evidence of resolution of non-compliance issues and defects if available. |
| | 3.5 | Prepare checklists and notes on non-compliance issues and defects identified from compliance documentation to assist the annual inspection process. |

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| | 3.6 | Prepare and process reports detailing anomalies and omissions in fire systems' compliance documentation according to workplace and regulatory requirements. |

## 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 CPCSFS5015A Assess documentation for annual fire systems certification inspections.

## Links

Companion Volume Implementation Guide: https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad

# Assessment Requirements for CPCSFS5015 Prepare documentation for annual fire systems inspections

## Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by:

- preparing relevant documentation of annual fire systems inspections that apply to existing fire systems in a range of buildings, including:
    - commercial building
    - factory
    - residential nursing home
    - high-rise building.

The activity should include preparation of fire safety schedules and inspection, testing and maintenance documentation.

## Knowledge Evidence

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

- compliance documentation:
    - fire safety schedules
    - inspection and testing logbooks
    - maintenance, repair and replacement documentation
- computer software functions and operation, including relevant proprietary software
- reading and interpreting drawings and reports
- relevant current and historical legislation, codes and standards:
    - building Acts
    - building regulations
    - infrastructure supply regulations
    - the Building Code of Australia (BCA)
    - National Construction Code (NCC)
    - Australian standards for fire systems
    - international standards for fire systems
    - jurisdictional authorities in addition to the BCA and NCC
    - other fire system standards commonly required by building insurers
- protection requirements for different buildings, including:
    - low-rise buildings
    - processing building applications
    - warehouse buildings under 13.7 m high
    - warehouse buildings over 13.7 m high
    - medium-rise buildings

    - high-rise buildings (over 25 metres)
    - buildings over 50 metres in height
- fire systems' technology and components:
    - water-based systems:
        - wet pipe sprinkler systems
        - deluge and drencher systems
        - dry pipe sprinkler systems
        - pre-action sprinkler systems
        - early suppression fast response (ESFR)
    - hydrants, hose reels and monitors
    - water supply tanks
    - fire pump sets
    - detection and warning systems:
        - occupant warning systems
        - emergency warning and intercommunications systems (EWIS)
        - fire detection and alarm systems
        - smoke control systems
        - emergency lighting systems
    - special hazard fire systems:
        - foam systems (low expansion, medium expansion and high expansion)
        - gaseous agent systems (carbon dioxide, inert gas and halocarbon gases)
        - water spray systems (deluge, medium/high velocity water spray and high-speed deluge)
        - chemical powder systems
        - wet chemical systems
- characteristics and limitations of products and materials used in fire systems and issues relating to material compatibility
- interconnection of fire systems:
    - cause and effect matrix
    - interface with other services
- passive fire safety elements:
    - identification of passive elements
    - requirements for safeguarding the integrity of passive fire element performance where penetrations have been made
- basic principles of structural engineering
- characteristics of building materials
- construction industry terminology
- sustainability requirements and ratings:
    - energy conservation
    - water conservation.

## Assessment Conditions

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

This unit must be assessed in the workplace or a close simulation using realistic workplace conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

## Links

Companion Volume Implementation Guide:
https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad