



Australian Government

Assessment Requirements for CPCSF5014 Conduct annual fire systems inspections

Release: 1

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Modification History

- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPCSF5014A Conduct annual fire systems certification inspections. Updated to meet the Standards for Training Packages 2012.

Performance Evidence

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

- preparing for, conducting and reporting on annual fire systems inspections for four types of fire systems in buildings with different construction and modification histories, including:
 - commercial building
 - factory
 - residential nursing home
 - high-rise building.

Knowledge Evidence

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

- auditing processes and protocols:
 - compliance documentation:
 - fire safety schedules
 - inspection and testing logbooks
 - maintenance, repair and replacement documentation
 - roles and responsibilities of relevant professional personnel:
 - fire engineer
 - fire brigade personnel
 - building surveyor or certifier
 - persons with regulatory authority
 - architect
 - structural engineer
 - fire systems' designer

- computer software functions and operation:
 - word processing
 - spreadsheet
 - email
 - internet
- drawings, plans, reports and specifications
- types of 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
- 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
 - other fire system standards commonly required by building insurers
 - jurisdictional authorities in addition to the BCA and NCC
- protection requirements for different buildings
- fire systems' technology and components:
 - water-based systems, including:
 - 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
 - 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
- contractual processes.

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 volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>