



Australian Government

Assessment Requirements for CPPFES3040 Install passive fire and smoke containment systems

Release: 1

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Modification History

Release 1 This version first released with CPP Property Services Training Package Release 13.0.

Supersedes and is equivalent to CPPFES3040A Install passive fire and smoke containment systems. Unit updated to meet the Standards for Training Packages 2012.

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by installing passive fire and smoke containment systems for three different penetrated elements of construction, including:

- installing different types of fireproofing to structural steel and ductwork:
 - spray
 - intumescent paint
 - board
- installing fire-stopping systems.

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 installing fire and smoke stopping products and systems
- dangers of incorrect installation of passive fire and smoke containment systems
- implications of not complying with National Construction Code (NCC) and manufacturer requirements when installing fire and smoke stopping products and systems
- key features of legislation, regulations, NCC and Australian Standards relevant to the installation of fire and smoke stopping products and systems:
 - design, construction, selection, installation and performance requirements for installed fire and smoke stopping products and systems
 - requirements for labelling and certifying installed fire and smoke stopping products and systems, including types of labels and documents to be used when marking and certifying products and systems
 - records and documentation
- meaning of common technical terms used in the installation of passive fire and smoke containment systems:

- plumb, level, square and perpendicular
- mix ratio, density, wet film thickness, dry film thickness, section factor (H_p/A), exposed surface to mass (ESM) ratio and critical temperature
- fire-rated walls, masonry, concrete, plasterboard and shaft wall
- fire-rated floors and floor ceiling systems
- penetration dimensions, i.e. width, height, depth and orientation
- ambient and cold smoke, medium smoke and elevated and hot smoke
- intumescent products and ablative products
- clearance, field of application, fire resistance levels, incipient spread of fire, spread of flame indices, fire test report, assessments and letters of opinion
- passive fire and smoke containment labelling types
- principles of passive fire protection related to overall fire safety and containment systems specific to passive fire and smoke containment systems
- procedures for determining fire resistance levels and smoke resistance levels
- fireproofing and fire-stopping variables, including types, components and fire barrier types
- types and purpose of tools and equipment used when installing fire and smoke stopping products and systems:
 - hand and power tools
 - personal protective equipment (PPE)
- types of quality defects that may cause loss of fire or smoke resistance when installing fire and smoke stopping products and systems
- types, purpose and key physical features of a range of fire and smoke stopping products and systems:
 - access panels and hatches
 - ceiling and partition systems
 - control and expansion joints
 - duct and damper penetration protection
 - duct fireproofing and protection
 - fabric and timber protection, including impregnated or sprayed
 - fire-resistant mortars and grouts, including load bearing and non-load bearing
 - fire-resistant pillows, including intumescent and non-intumescent
 - fire stop collars, including cast in, retrofit and wall
 - fire-rated air transfer grilles
 - fire-rated sealants, caulks and putties, including acrylic, polyurethane and silicone
 - fire-resistant boards, including calcium silicate and vermiculite
 - industrial fire protection
 - intumescent dampers and seals
 - intumescent paints and coatings, other than those used for fireproofing structural steel
 - linear gaps seals, including impregnated foams, tapes, intumescent gaskets and sealants

- materials into or onto which passive fire and smoke containment products are installed
- mechanical and intumescent fire dampers
- openings in structural elements
- penetration solutions
- protection against spread of flame
- smoke dampers
- structural steel fireproofing
- unplasticised polyvinyl chloride (UPVC) and plumbing penetrations
- workplace requirements for installing fire and smoke stopping products and systems:
 - 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, fire and smoke stopping products and systems and associated manufacturer/product information, and installation sites required to achieve the performance evidence.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>