



Australian Government

CPCCWC3003 Install dry wall passive fire-rated systems

Release: 3

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Modification History

- Release 3 Updated reference to general construction induction training program.
- Release 2 This version first released with CPC Construction, Plumbing and Services Training Package Release 6.2.
- Correction to prerequisite unit code from CPPWHS2001 Apply WHS requirements, policies and procedures in the construction industry to CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and equivalent to CPCCWC3003A Install passive fire-wall rated systems Updated to meet the Standards for Training Packages 2012.

Application

This unit of competency specifies the outcomes required to select and install dry wall fire-rated systems to walls and ceilings.

A person working at this level would be expected to take responsibility for organising and completing tasks assigned to them without close supervision.

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Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required for any person who is to carry out construction work. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

No licensing, legislative or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

CPCCWHS2001 Apply WHS requirements, policies and procedures in the construction industry.

Unit Sector

Wall and ceiling

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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| 1 Plan and prepare. | 1.1 Read and interpret work instructions and plan sequence of work. |
| | 1.2 Plan all work to comply with laws and regulations, the National Construction Code (NCC), Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications, and workplace requirements. |
| | 1.3 Plan all work strictly within the manufacturer's fire-rating design, so that fire-rating criteria are always met. |
| | 1.4 Select and use personal protective equipment (PPE) for each stage of the task. |
| | 1.5 Inspect work site, assess hazards and apply risk controls, including required signage and barricades. |
| | 1.6 Select tools and equipment, check for serviceability and report any faults that may affect the safe operation of the equipment, tag equipment and set aside. |
| | 1.7 Select materials required for task, calculate quantities, handle safely and prepare and position ready for use. |
| 2 Line timber stud wall using fire-rated system. | 2.1 Determine whether structure of the timber wall is for load or non-load bearing. |
| | 2.2 Select manufacturer's fire-rating design for the timber stud wall. |
| | 2.3 Set out materials and space fixings to manufacturer's fire-rating design. |
| | 2.4 Fix material and complete penetrations. |
| | 2.5 Finish joints to exposed face sheet layers using fire-rated materials and procedures to manufacturer's fire-rating design. |

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| 3 Construct steel stud fire-rated partition system. | 3.1 | Select manufacturer's fire-rating design for the steel stud wall. |
| | 3.2 | Determine the fixing requirements for the steel stud wall, as designed to meet fire test criteria. |
| | 3.3 | Secure deflection heads and apply sealant. |
| | 3.4 | Setout material, meeting the manufacturer's fire-rating design. |
| | 3.5 | Space fixings, fix materials and complete penetrations. |
| | 3.6 | Finish joints to exposed face sheet layers using fire-rated materials and procedures to manufacturer's fire-rating design. |
| 4 Construct fire-rated shaft wall system. | 4.1 | Select materials to manufacturer's fire-rating design and fix components to precise clearances. |
| | 4.2 | Set out materials and complete penetrations. |
| | 4.3 | Finish joints to exposed face sheet layers using fire-rated materials and procedures to manufacturer's fire-rating design. |
| 5 Line timber joist ceiling using fire-rated system. | 5.1 | Check ceiling substrate and line to manufacturer's fire-rating design. |
| | 5.2 | Select fixings and apply lining. |
| | 5.3 | Space fixings at correct intervals. |
| | 5.4 | Complete penetrations. |
| | 5.5 | Finish joints to exposed face sheet layers using fire-rated materials and procedures to manufacturer's fire-rating design. |
| 6 Construct suspended ceiling with a fire-rating system. | 6.1 | Select materials and choose fixings for manufacturer's fire-rating design for fire-rated ceiling. |
| | 6.2 | Construct ceiling flat, true, level and structurally sound. |

- 6.3 Complete penetrations.
 - 6.4 Finish joints to exposed face sheet layers using fire-rated materials and procedures to manufacturer's fire-rating design.
- 7 Clean up.
 - 7.1 Clear work area and dispose of, reuse or recycle materials.
 - 7.2 Clean, check, maintain and store tools and equipment in accordance with manufacturers' specifications.

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and equivalent to CPCCWC3003A Install passive fire-wall rated systems

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>

Assessment Requirements for CPCCWC3003 Install dry wall passive fire-rated systems

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Performance Evidence

To demonstrate competency, a candidate must satisfy all of the elements, performance criteria and foundation skills of this unit by installing to specification a minimum of three dry wall passive fire-rated systems:

- one to a steel stud wall
- one covering columns and beams
- one comprising a multiple layer system.

All work must be performed to the standard required in the workplace and must comply with the National Construction Code (NCC), Commonwealth and state/territory laws and regulations, Australian Standards, work health and safety (WHS) and environmental requirements, manufacturers' specifications, and workplace requirements.

Knowledge Evidence

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

- compliance requirements of the National Construction Code and Australian Standards for installing dry wall passive fire-rated systems
- regulations and building codes related to dry wall passive fire-rated systems, including:
 - types and specifications for dry wall passive fire-rated systems related to steel stud and timber stud walls, shaft walls, timber joists and suspended ceilings
- quality policies and standards for installing dry wall passive fire-rated systems

- safety requirements for installing dry wall passive fire-rated systems, including personal protective equipment (PPE), job safety analyses, safe work method statements and safety data sheets
- environmental requirements for installing dry wall passive fire-rated systems
- basic combustion theory relating to dry wall passive fire-rated systems
- manufacturer's design installation techniques and processes
- plans, drawings and specifications for installing dry wall passive fire-rated systems
- processes for the calculation of material requirements for installing dry wall passive fire-rated systems
- range of materials commonly used in the installation of dry wall passive fire-rated systems:
 - base compound coats
 - finishing coats
 - fire grade metal studs and track
 - fire grade plasterboard sheeting
 - fire sealants
 - perforated paper tapes
 - vermiculite or equivalent product
 - fasteners
- tools and equipment used in the installation of dry wall passive fire-rated systems.

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 of the workplace environment, provided that simulated or project-based assessment techniques replicate construction workplace conditions, materials, activities, responsibilities and procedures
- using realistic tasks or simulated tasks, relevant specifications and work instructions, standard work practices, safety requirements and environmental constraints.

Links

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