



**Australian Government**

# **CPC32812 Certificate III in Fire Protection**

**Release 1**

## CPC32812 Certificate III in Fire Protection

### Modification History

Revised qualification deemed not equivalent to CPC32811

Change to core units:

- a number of units replaced with updated versions
- CPCPCM2011A replaced with imported unit HLTFA211A
- PRMFES units replaced with CPPFES units

Change to elective units:

- CPPCMN2002A Participate in workplace safety arrangements and CPPFES2006A Prepare for installation and servicing operations added to elective unit list to correct their omission from the packaging rules, given their status as prerequisite to CPCPFS3040A, CPCPFS3041A, CPCPFS3042A and CPCPFS3043A
- new unit CPCPWT3030A added to water stream
- a number of units replaced with updated versions
- several units revised resulting in unit identifier changes

### Description

This qualification provides a trade outcome in installing, testing and maintaining fire protection systems.

Occupational titles may include:

- Fire protection systems technician.

The qualification has core and elective unit of competency requirements that cover some common skills for the plumbing industry, as well as fire protection specialist units of competency.

The plumbing industry strongly affirms that training and assessment leading to recognition of skills must be undertaken in a real or very closely simulated workplace environment and this qualification requires all units of competency to be delivered in this context.

Completion of the general induction training program specified by the National Code of Practice for Induction Training for Construction Work (ASCC 2007) is required before entering a construction work site. Achievement of unit CPCCOHS1001A covers this requirement.

### Pathways Information

Not applicable.

## **Licensing/Regulatory Information**

Not applicable.

## **Entry Requirements**

Not applicable.

## Employability Skills Summary

| Employability skill  | Industry/enterprise requirements for this qualification include:   |
|----------------------|--|
| <b>Communication</b> | <ul style="list-style-type: none"> <li>• Communicates with clients, colleagues and others using effective and appropriate communication techniques, including:               <ul style="list-style-type: none"> <li>• Clear and direct communication</li> <li>• Active listening</li> <li>• Verbal and non-verbal language</li> <li>• Questioning to identify and confirm requirements</li> <li>• Language and concepts appropriate to cultural differences</li> </ul> </li> <li>• Follows instructions from supervisor and other relevant persons</li> <li>• Understands, interprets and applies information as required from:               <ul style="list-style-type: none"> <li>• Regulatory, legislative, licensing and organisational requirements</li> <li>• Environmental and OHS requirements, including material safety data sheets (MSDS)</li> <li>• Codes and standards</li> <li>• Plans, drawings and specifications</li> <li>• Schedules</li> <li>• Load tables</li> <li>• Designs</li> <li>• Safety signs and symbols</li> <li>• Organisational policies and procedures</li> </ul> </li> <li>• Understands relevant definitions, terminology, symbols, abbreviations and language</li> <li>• Uses industry-accepted visual communications, including hand signals</li> <li>• Reports and records routine workplace and regulatory information including test data</li> <li>• Applies measurements and calculations using appropriate equipment, formulas and records as required</li> <li>• Reports and records hazards and risks</li> <li>• Produces drawings and sketches</li> </ul> |
| <b>Teamwork</b>      | <ul style="list-style-type: none"> <li>• Works as part of a team</li> <li>• Provides assistance and encouragement to other team members</li> <li>• Initiates and encourages improvements in team performance</li> <li>• Works with others to plan and sequence tasks</li> <li>• Identifies and utilises the strengths of other team members</li> <li>• Relates to people from diverse social, cultural and ethnic backgrounds and with varying physical and mental abilities</li> </ul>  |

| <b>Employability skill</b>       | <b>Industry/enterprise requirements for this qualification include:</b>  |
|----------------------------------|--|
|                                  | <ul style="list-style-type: none"> <li>• Participates in workplace meetings</li> </ul>   |
| <b>Problem solving</b>           | <ul style="list-style-type: none"> <li>• Responds effectively to hazards, risks, emergencies and first aid situations</li> <li>• Examines tools and equipment prior to use for damage, missing components or other defects</li> <li>• Identifies typical faults and problems and takes remedial actions and/or reports to supervisor</li> <li>• Rectifies simple faults with tools and equipment</li> <li>• Test systems, components and services</li> <li>• Locates and repairs gas leaks</li> <li>• Assesses roof work site safety</li> </ul>  |
| <b>Initiative and enterprise</b> | <ul style="list-style-type: none"> <li>• Maximises use of resources by recycling, re-using or using appropriate disposal methods</li> <li>• Responds to change and workplace challenges</li> <li>• Designs pre-calculated fire sprinkler systems</li> <li>• Determines requirements for installations</li> </ul>   |
| <b>Planning and organising</b>   | <ul style="list-style-type: none"> <li>• Prepares work area</li> <li>• Identifies and obtains necessary documentation</li> <li>• Collects, analyses and organises workplace information</li> <li>• Selects and uses appropriate materials, tools and equipment</li> <li>• Carries out site inspections</li> <li>• Determines material quantity requirements and conformity to requirements</li> <li>• Coordinates delivery of materials</li> <li>• Determines installation requirements</li> <li>• Fabricates and installs systems and components</li> <li>• Installs water services, pump and meters</li> <li>• Prioritises and sequences tasks</li> <li>• Applies time management skills to ensure work is completed to time requirements</li> </ul> |
| <b>Self management</b>           | <ul style="list-style-type: none"> <li>• Recognises obligations and accepts responsibility for own work and safety</li> <li>• Recognises quality requirements and completes work to expected standard</li> <li>• Identifies personal career development needs and sets own and</li> </ul>  |

| <b>Employability skill</b> | <b>Industry/enterprise requirements for this qualification include:</b>  |
|----------------------------|--|
|                            | team work goals <ul style="list-style-type: none"> <li>• Participates in workplace induction</li> <li>• Cleans up work area, including tools and equipment</li> <li>• Seeks support to improve work performance</li> </ul>   |
| <b>Learning</b>            | <ul style="list-style-type: none"> <li>• Identifies own learning needs and seeks skill development as required</li> <li>• Is open to learning new ideas and techniques</li> <li>• Participates in workplace induction</li> </ul>   |
| <b>Technology</b>          | <ul style="list-style-type: none"> <li>• Uses electricity and electrical equipment safely</li> <li>• Uses and operates a range of tools and equipment correctly and safely</li> <li>• Properly starts up, operates and shuts down equipment</li> <li>• Identifies technological trends that may affect the plumbing and services sector</li> <li>• Carries out pre- and post-operational checks on tools and equipment</li> <li>• Performs tool and equipment maintenance as required</li> </ul> |

## Packaging Rules

To achieve this qualification, the candidate must demonstrate competency in:

- 37 units of competency:
  - 31 core units
  - 6 elective units.

Some units in this qualification may have prerequisite requirements, which must be met when packaging the qualification. Users are referred to the list of CPC08 units with prerequisite unit requirements available in this Training Package for this purpose.

### Core units

|             |  |
|-------------|--|
| CPCPCM2039A | Carry out interactive workplace communication                  |
| CPCPCM2040A | Read plans and calculate plumbing quantities                   |
| CPCPCM2041A | Work effectively in the plumbing and services sector           |
| CPCPCM2043A | Carry out WHS requirements                                     |
| CPCPCM2045A | Handle and store plumbing materials                            |
| CPCPCM2046A | Use plumbing hand and power tools                              |
| CPCPCM2047A | Carry out levelling  |
| CPCPCM2048A | Cut and join sheet metal                                       |
| CPCPCM2049A | Cut using oxy-LPG-acetylene equipment                          |
| CPCPCM2050A | Mark out materials   |
| CPCPCM2052A | Weld using oxy-acetylene equipment                             |
| CPCPCM2053A | Weld using manual metal arc welding equipment                  |
| CPCPCM3023A | Fabricate and install non-ferrous pressure piping              |
| CPCPFS2021A | Connect static storage tanks for fixed fire protection systems |
| CPCPFS3030A | Design pre-calculated fire sprinkler systems                   |
| CPCPFS3031A | Fabricate and install fire hydrant and hose reel systems       |
| CPCPFS3032A | Install distribution and range pipes                           |

|             |  |
|-------------|--|
| CPCPFS3033A | Fit off sprinkler heads, controls and ancillary equipment                |
| CPCPFS3034A | Install control valve assemblies, actuating devices and local alarms     |
| CPCPFS3035A | Test fire protection systems for pressure                                |
| CPCPFS3036A | Install special hazard systems   |
| CPCPFS3037A | Install domestic and residential life safety sprinkler systems           |
| CPCPFS3038A | Test and maintain fire hydrant and hose reel installations               |
| CPCPFS3039A | Test and maintain automatic fire sprinklers                              |
| CPCPMS3031A | Fabricate and install steel pressure piping                              |
| CPCPWT3025A | Install water pumpsets   |
| CPCPWT3028A | Install water services   |
| CPPFES2025A | Inspect, test and maintain gaseous fire-suppression systems              |
| CPPFES2043A | Prevent ozone depleting substance and synthetic greenhouse gas emissions |
| CPPFES2047A | Inspect and test control and indicating equipment                        |
| HLTFA211A   | Provide basic emergency life support                                     |

### Elective units

|              |   |
|--------------|---|
| CPCCCM2008B  | Erect and dismantle restricted height scaffolding             |
| CPCCCM2010B  | Work safely at heights  |
| CPCCCM3001C  | Operate elevated work platforms                               |
| CPCCPB3015A  | Install acoustic and thermal environmental protection systems |
| CPCCRI3001A  | Operate personnel and materials hoists                        |
| CPC CST2005A | Carry out load slinging of off-site materials                 |
| CPCPCM2054A  | Carry out simple concreting and rendering                     |



|             |   |
|-------------|---|
| CPCPCM2055A | Work safely on roofs  |
| CPCPCM3021A | Flash penetrations through roofs and walls  |
| CPCPCM3022A | Weld polyethylene and polypropylene pipes using fusion method                     |
| CPCPFS2022A | Install portable fire equipment   |
| CPCPFS3040A | Conduct basic functional testing of water-based fire-suppression systems          |
| CPCPFS3041A | Inspect and test fire pumpsets  |
| CPCPFS3042A | Conduct annual functional testing of complex water-based fire-suppression systems |
| CPCPFS3043A | Conduct functional water flow testing   |
| CPCPWT3029A | Install water pipe systems  |
| CPCPWT3030A | Install home fire sprinkler systems   |
| CPPCMN2002A | Participate in workplace safety arrangements                                      |
| CPPFES2006A | Prepare for installation and servicing operations                                 |
| RIICCM210A  | Install trench support  |

## Custom Content Section

Not applicable.