



Australian Government

CPC32813 Certificate III in Fire Protection

Release 1

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Modification History

Revised qualification deemed not equivalent to CPC32812

- four core units revised resulting in non-equivalence and changes to codes:
 - CPCPFS3044A Install distribution and range pipes
 - CPCPFS3045A Fit off sprinkler heads, controls and ancillary equipment
 - CPCPFS3046A Test the integrity of water-based fire protection systems using pressure
 - CPCPFS3047A Test and maintain automatic fire sprinklers
- two new units added to elective pool:
 - CPCPFS3048A Install fixed fire pumpsets
 - CPCPFS3049A Conduct preventive maintenance on fixed fire pumpsets
- pathways information added

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

This qualification is suitable for an Australian Apprenticeship pathway.

Licensing/Regulatory Information

This is a licensed occupation. Check with relevant state and territory licensing and regulatory authorities. State and territory jurisdictions may have different regulatory requirements.

Entry Requirements

Not applicable.

Employability Skills Summary

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

- Identifies and uses the strengths of other team members
- Relates to people from diverse social, cultural and ethnic backgrounds and with varying physical and mental abilities
- Participates in workplace meetings

Problem solving

- Responds effectively to hazards, risks, emergencies and first aid situations
- Examines tools and equipment prior to use for damage, missing components or other defects
- Identifies typical faults and problems and takes remedial actions and/or reports to supervisor
- Rectifies simple faults with tools and equipment
- Tests systems, components and services
- Locates and repairs gas leaks
- Assesses roof work site safety

Initiative and enterprise

- Maximises use of resources by recycling, re-using or using appropriate disposal methods
- Responds to change and workplace challenges
- Designs pre-calculated fire sprinkler systems
- Determines requirements for installations

Planning and organising

- Prepares work area
- Identifies and obtains necessary documentation
- Collects, analyses and organises workplace information
- Selects and uses appropriate materials, tools and equipment
- Carries out site inspections
- Determines material quantity requirements and conformity to requirements
- Coordinates delivery of materials
- Determines installation requirements
- Fabricates and installs systems and components
- Installs water services, pumps and meters
- Prioritises and sequences tasks
- Applies time management skills to ensure work is completed to time requirements

Self management

- Recognises obligations and accepts responsibility for own work and safety
- Recognises quality requirements and completes work to expected standard

- Identifies personal career development needs and sets own and team work goals
- Participates in workplace induction
- Cleans up work area, including tools and equipment
- Seeks support to improve work performance

Learning

- Identifies own learning needs and seeks skill development as required
- Is open to learning new ideas and techniques
- Participates in workplace induction

Technology

- Uses electricity and electrical equipment safely
- Uses and operates a range of tools and equipment correctly and safely
- Properly starts up, operates and shuts down equipment
- Identifies technological trends that may affect the plumbing and services sector
- Carries out pre- and post-operational checks on tools and equipment
- Performs tool and equipment maintenance as required

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
CPCPFS3034A	Install control valve assemblies, actuating devices and local alarms

CPCPFS3036A	Install special hazard systems
CPCPFS3037A	Install domestic and residential life safety sprinkler systems
CPCPFS3038A	Test and maintain fire hydrant and hose reel installations
CPCPFS3044A	Install distribution and range pipes
CPCPFS3045A	Fit off sprinkler heads, controls and ancillary equipment
CPCPFS3046A	Test the integrity of water-based fire protection systems using pressure
CPCPFS3047A	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
CPCPFS3048A	Install fixed fire pumpsets
CPCPFS3049A	Conduct preventive maintenance on fixed fire pumpsets
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.