



Australian Government

Department of Education, Employment and Workplace Relations

CPC32811 Certificate III in Fire Protection

Release: 1

CPC32811 Certificate III in Fire Protection

Modification History

Not Applicable

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 SKILLS QUALIFICATION SUMMARY

Employability skill	Industry/enterprise requirements for this qualification include:
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 OHS requirements, including material safety data sheets (MSDS)• 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

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

- Initiates and encourages improvements in team performance
 - Works with others to plan and sequence tasks
 - Identifies and utilises 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
 - Test 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, pump and meters
 - Prioritises and sequences tasks
 - Applies time management skills to ensure work is completed to time requirements

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Self management	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Identifies own learning needs and seeks skill development as required • Is open to learning new ideas and techniques • Participates in workplace induction
Technology	<ul style="list-style-type: none"> • 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

Packaging rules

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

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

Core units

CPCPCM2002A	Carry out interactive workplace communication
CPCPCM2004A	Read plans and calculate plumbing quantities
CPCPCM2011A	Apply first aid in the workplace
CPCPCM2021A	Work effectively in the plumbing and services sector

CPCPCM2023A	Carry out OHS requirements
CPCPCM2025A	Handle and store plumbing materials
CPCPCM2026A	Use plumbing hand and power tools
CPCPCM2027A	Carry out levelling
CPCPCM2028A	Cut and join sheet metal
CPCPCM2029A	Cut using oxy-LPG-acetylene equipment
CPCPCM2030A	Mark out materials
CPCPCM2032A	Weld using oxy-acetylene equipment
CPCPCM2033A	Weld using arc welding equipment
CPCPCM3013A	Fabricate and install non-ferrous pressure piping
CPCPFS2011A	Connect static storage tanks for fixed fire protection systems
CPCPFS3010A	Design pre-calculated fire sprinkler systems
CPCPFS3011A	Fabricate and install fire hydrant and hose reel systems
CPCPFS3012A	Install distribution and range pipes
CPCPFS3013A	Fit off sprinkler heads, controls and ancillary equipment
CPCPFS3014A	Install control valve assemblies, actuating devices and local alarms
CPCPFS3015A	Test fire protection systems for pressure
CPCPFS3016A	Install special hazard systems
CPCPFS3017A	Install domestic and residential life safety sprinkler systems
CPCPFS3018A	Test and maintain fire hydrant and hose reel installations
CPCPFS3019A	Test and maintain automatic fire sprinklers
CPCPMS3011A	Fabricate and install steel pressure piping
CPCPWT3015A	Install water pump sets

CPCPWT3018A	Install water service
PRMPFES25C	Inspect, test and maintain gaseous fire suppression systems
PRMPFES47A	Inspect and test control and indicating equipment
PRMPFES43A	Prevent ozone depleting substance and synthetic greenhouse gas emissions
Elective units	
CPCCCM2008A	Erect and dismantle restricted height scaffolding
CPCCCM2010A	Work safely at heights
CPCCCM3001B	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
CPCPCM2034A	Carry out simple concreting and rendering
CPCPCM2035A	Work safely on roofs
CPCPCM3011A	Flash penetrations through roofs and walls
CPCPCM3012A	Weld plastic pipe using fusion method
CPCPFS2012A	Install portable fire equipment
CPCPFS3020A	Conduct basic functional testing of water-based fire-suppression systems
CPCPFS3021A	Inspect and test fire pumpsets
CPCPFS3022A	Conduct annual functional testing of complex water-based fire-suppression systems
CPCPFS3023A	Conduct functional water flow testing
CPCPWT3019A	Install water pipe systems
RIICCM210A	Install trench support

