



Australian Government

CPC20912 Certificate II in Urban Irrigation

Release 1

CPC20912 Certificate II in Urban Irrigation

Modification History

Revised qualification deemed not equivalent to CPC20911

Guidance included in the packaging rules regarding options in choice of electives

A number of core and elective units replaced with updated versions

Change to core units:

- native CPC08 first aid unit (CPCPCM2011A) replaced with imported HLT07 unit (HLTFA211A)
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Description

This qualification provides an occupational outcome in urban irrigation.

Occupational titles may include:

- Irrigation technician.

The qualification has core and elective units of competency that include units common to other qualifications in the plumbing industry, as well as specialist urban irrigation 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:
Communication	- Communicates with clients, colleagues and others using effective and appropriate communication techniques, including: - 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: - Regulatory, legislative, licensing and organisational requirements - Environmental and OHS requirements, including material safety data sheets (MSDS) - Codes and standards - Plans, drawings and specifications - Schedules - 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 - Applies measurements and calculations using appropriate equipment, formulas and records as required - Reports and records hazards and risks - Produces designs, drawings and sketches
Teamwork	- Works as part of a team - Provides assistance and encouragement to other team members - Initiates and encourages improvements in team performance

Employability skill	Industry/enterprise requirements for this qualification include:
	• 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 • Calculates water flow rates
Initiative and enterprise	• Maximises use of resources by recycling, re-using or using appropriate disposal methods • Responds to change and workplace challenges • Designs domestic irrigation systems
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 • Determines installation requirements • Installs, commissions and tests as required systems and pumps • Determines roof water storage requirements • 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

Employability skill	Industry/enterprise requirements for this qualification include:
	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 • 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:

- 20 units of competency:
 - 13 core units
 - 7 elective units.

The elective units must ensure the integrity of the AQF alignment and contribute to a valid, industry-supported vocational outcome and are to be chosen as follows:

- 7 units from the elective units listed below
- 2 of the units may be chosen from other Certificate II or III qualifications in CPC08 or another current Training Package or accredited course.

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
CPCPCM2050A	Mark out materials
CPCPCM2054A	Carry out simple concreting and rendering
CPCPFS2021A	Connect static storage tanks for fixed fire protection systems
CPCPIG2021A	Design domestic urban irrigation systems
CPCPIG3021A	Set out, install and commission irrigation systems
CPCPIG3022A	Install and commission domestic irrigation pumps
HLTFA211A	Provide basic emergency life support

Elective units

CPC CST2005A	Carry out load slinging of off-site materials
CPCPCM2047A	Carry out levelling
CPCPCM2048A	Cut and join sheet metal
CPCPCM2049A	Cut using oxy-LPG-acetylene equipment
CPCPCM2052A	Weld using oxy-acetylene equipment
CPCPCM2053A	Weld using manual metal arc welding equipment

CPCPCM3022A	Weld polyethylene and polypropylene pipes using fusion method
CPCPRF2023A	Collect and store roof water
CPCPWT3025A	Install water pumpsets
CPCPWT3027A	Connect irrigation systems from drinking water supply
CPCPWT3028A	Install water services
CPCPWT3029A	Install water pipe systems
RIICCM210A	Install trench support

Custom Content Section

Not applicable.