



Australian Government

Department of Education, Employment and Workplace Relations

CPC20911 Certificate II in Urban Irrigation

Release: 1

CPC20911 Certificate II in Urban Irrigation

Modification History

Not Applicable

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 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• 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	<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

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<ul style="list-style-type: none">• 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	<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

EMPLOYABILITY SKILLS QUALIFICATION SUMMARY

Learning	<ul style="list-style-type: none">• Cleans up work area, including tools and equipment• Seeks support to improve work performance
	<ul style="list-style-type: none">• Identifies own learning needs and seeks skill development as required• Is open to learning new ideas and techniques
	<ul style="list-style-type: none">• 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• 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:

- 20 units of competency:
- 13 core units
- 7 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
CPCPCM2030A	Mark out materials
CPCPCM2034A	Carry out simple concreting and rendering

CPCPFS2011A Connect static storage tanks for fixed fire protection systems

CPCPIG2011A Design domestic urban irrigation systems

CPCPIG3011A Set out, install and commission irrigation systems

CPCPIG3012A Install and commission domestic irrigation pumps

Elective units

CPC CST2005A Carry out load slinging of off-site materials

CPCPCM2027A Carry out levelling

CPCPCM2028A Cut and join sheet metal

CPCPCM2029A Cut using oxy-LPG-acetylene equipment

CPCPCM2032A Weld using oxy-acetylene equipment

CPCPCM2033A Weld using arc welding equipment

CPCPCM3012A Weld plastic pipe using fusion method

CPCPRF2013A Collect and store roof water

CPCPWT3015A Install water pump sets

CPCPWT3017A Connect irrigation systems from drinking water supply

CPCPWT3018A Install water service

CPCPWT3019A Install water pipe systems

RIICCM210A Install trench support