



Australian Government

CPC50620 Diploma of Hydraulic Services Design

Release: 2

CPC50620 Diploma of Hydraulic Services Design

Modification History

- Release 2 Updated reference to general construction induction training program.
- Release 1 This version first released with CPC Construction, Plumbing and Services Training Package Release 5.0.
- Supersedes and is equivalent to CPC50612 Diploma of Hydraulic Services Design. Updated to meet the Standards for Training Packages 2012.

Qualification Description

This qualification reflects the role of a specialist hydraulic design consultant who designs plumbing and services systems in domestic, commercial and industrial contexts. The qualification includes the skills and knowledge to design complex hydraulic systems.

Occupational titles could include:

- Hydraulic design consultant.

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

Completion of the general construction induction training program specified by the model Code of Practice for Construction Work is required before entering a construction work site. Achievement of *CPCWHS1001 Prepare to work safely in the construction industry* meets this requirement.

No licensing, legislative or certification requirements apply to this qualification at the time of publication. This qualification does not meet competency requirements for plumbing licencing or registration.

Entry Requirements

CPC40920 Certificate IV in Plumbing and Services or

CPC40912 Certificate IV in Plumbing and Services and CPCPCM4015 Access and interpret regulatory requirements for the plumbing and services industry

Packaging Rules

To be awarded this qualification, competency must be achieved in:

- 18 units of competency:
 - 14 core units

- 4 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:

- 3 elective units must be chosen from the elective units listed below
- 1 elective unit may be selected from any other group or from any relevant nationally endorsed Training Package or accredited course.

An asterisk (*) against a unit code below indicates that the unit has a prerequisite. Please check the unit for information on this. All prerequisites are packaged in the qualification.

Core Units

CPCPCM5010	Design complex sanitary plumbing and drainage systems
CPCPCM5011	Design complex cold water systems
CPCPCM5012	Design complex stormwater and roof drainage systems
CPCPCM5013	Design complex (non-solar) heated water systems
CPCPPS5002	Design gas reticulation systems
CPCPPS5023	Design solar water heating systems
CPCPPS5024	Conduct a water audit and identify water-saving initiatives
CPCPPS5025	Design grey water re-use systems
CPCPPS5026	Design rainwater collection, storage, distribution and re-use systems
CPCPPS5028	Design trade waste pre-treatment systems
CPCPPS5030	Design pump systems
CPCPPS5032	Design siphonic stormwater drainage systems
CPCSFS5001	Define scope and hazard level of fire systems design projects
CPCSFS5007	Create detailed designs for hydrant and hose reel systems

Elective Units

BSBTEC201	Use business software applications
BSBWRT411	Write complex documents

CPCPCM2043	Carry out WHS requirements
CPCPCM3024	Prepare simple drawings
CPCPCM4013	Produce 2-D architectural drawings using design software
CPCPDR3025*	Plan layout and install vacuum drainage systems
CPCPFS5011	Design fire sprinkler systems
CPCPMS5010	Design steam generation and distribution systems
CPCPMS5011	Design air conditioning and ventilation systems
CPCPMS5012	Design sound attenuated hydraulic services
CPCPMS5013	Design hydronic heating and cooling systems
CPCPPS5014	Locate and maintain piping systems
CPCPPS5015	Inspect plumbing and drainage systems
CPCPPS5027	Design irrigation systems
CPCPPS5033*	Design vacuum drainage systems
CPCSUS5001	Develop workplace policies and procedures for sustainability

Qualification Mapping Information

CPC Construction, Plumbing and Services Training Package 5.0	CPC08 Construction, Plumbing and Services Training Package	Comments	E/NE
CPC50620 Diploma of Hydraulic Services Design	CPC50612 Diploma of Hydraulic Services Design	Supersedes and is equivalent to CPC50612 Diploma of Hydraulic Services Design. Updated to meet the Standards for Training Packages 2012.	E

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>