Qualification Template

**QUALIFICATION CODE** CPC50620

**QUALIFICATION TEMPLATE** Diploma of Hydraulic Services Design

**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 *CPCCWHS1001 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**

|  |  |
| --- | --- |
| BSBITU212 | Create and use spreadsheets |
| BSBWRT401 | 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**

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| --- | --- | --- | --- |
| **Code and Title** | **CPC08 Construction, Plumbing and Services Training Package** | **Comments** | **Equivalent status** |
| CPC50620 Diploma of Hydraulic Services Design | CPC50612 Diploma of Hydraulic Services Design | Qualification supersedes and is equivalent to CPC50612 Diploma of Hydraulic Services Design. | **E** |

**LINKS**

An Implementation Guide to this Training Package is available at:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=7e15fa6a-68b8-4097-b099-030a5569b1ad>