**QUALIFICATION CODE** CPP50120

**QUALIFICATION TITLE** Diploma of Surveying

**QUALIFICATION DESCRIPTION**

This qualification reflects the role of skilled surveying technicians who hold advanced surveying skills and perform duties in the field involving the performance of precise measurements and setting out of structures using specialised surveying equipment. In the office they map onsite measurements and draft plans. Surveying skills are applied in a range of industry contexts including town planning, civil construction, mining, engineering, health, agriculture and defence.

Licensing, legislative, regulatory or certification requirements apply in every state. Cadastral surveying must be undertaken under the supervision of a registered surveyor. Relevant state and territory regulatory authorities should be consulted to confirm those requirements.

This qualification is suitable for an Australian traineeship pathway.

**ENTRY REQUIREMENTS**

Entry points to undertake the CPP50120 Diploma of surveying are:

* CPP40216 Certificate IV in Surveying, or
* CPP41720 Certificate IV in Surveying and Spatial Information Services (Surveying), or
* Demonstrated relevant vocational experience, skills and knowledge commensurate with the scope of work covered in the CPP41720 Certificate IV in Surveying and Spatial Information Services (Surveying).

**PACKAGING RULES**

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| To achieve this qualification, competency must be demonstrated in 16 units of competency consisting of:* 8 core units and
* 8 elective units.
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| Electives are to be selected as follows:* 8 units from the electives listed below, or
* up to 2 of the 8 elective units may be selected from any current training package provided they contribute to a valid, industry-supported vocational outcome, maintain the integrity of the AQF level of this qualification and do not duplicate the outcome of another unit used to achieve this qualification.

Core  |
| CPPSSI5047 | Conduct GNSS surveys  |
| CPPSSI5048 | Conduct engineering surveys  |
| CPPSSI5053 | Perform complex surveying computations  |
| CPPSSI5054 | Perform geodetic surveying computations |
| CPPSSI5057 | Conduct precision surveys  |
| CPPSSI5058 | Conduct geodetic surveys  |
| CPPSSI5061 | Survey subsurface utility information (SUI) |
| CPPSSI5065 | Design basic engineering structures  |
| Elective  |
| [AHCLPW404](https://training.gov.au/Training/Details/AHCLPW404) | Produce maps for land management purposes  |
| [BSBPMG522](https://training.gov.au/Training/Details/BSBPMG522) | Undertake project work  |
| CPPSSI5031 | Develop a spatial data collection plan |
| CPPSSI5032 | Capture new spatial data |
| CPPSSI5040 | Source, collate and interpret spatial data |
| CPPSSI5044 | Develop subdivision survey designs  |
| CPPSSI5046 | Set out roads and stormwater systems  |
| CPPSSI5050 | Produce survey drawings  |
| CPPSSI5051 | Conduct identification surveys |
| CPPSSI5052 | Integrate surveying datasets  |
| CPPSSI5060 | Develop spreadsheets for spatial data  |
| CPPSSI5062 | Conduct photogrammetric mapping  |
| CPPSSI5064 | Conduct complex spatial data analysis |
| CPPSSI6021 | Conduct open pit mine surveys  |
| CPPSSI6022 | Produce mine drawings  |
| CPPSSI6033 | Conduct underground mine surveys  |
| CPPSSI6037  | Conduct advanced remote sensing analysis  |
| [NWPHYS001](https://training.gov.au/Training/Details/NWPHYS001)  | Identify and analyse information technology for hydrographic surveys |
| [NWPHYS002](https://training.gov.au/Training/Details/NWPHYS002)  | Interpret and analyse science principles for hydrographic surveying |
| [NWPHYS003](https://training.gov.au/Training/Details/NWPHYS003)  | Manage and analyse water levels and flows |
| [NWPHYS004](https://training.gov.au/Training/Details/NWPHYS004)  | Manage hydrographic surveying projects |
| [NWPHYS005](https://training.gov.au/Training/Details/NWPHYS005)  | Use alternate positioning systems to gather data |
| [NWPHYS006](https://training.gov.au/Training/Details/NWPHYS006) [NWPHYS007](https://training.gov.au/Training/Details/NWPHYS007) | Use remote sensing for hydrographic surveyingUse underwater acoustics to map waterways  |
| MEM23004A  | Apply technical mathematics  |
| [PSPLND002](https://training.gov.au/Training/Details/PSPLND002) | Compile and check survey plans  |

**QUALIFICATION MAPPING INFORMATION**

The CPP50220 Diploma of Surveying supersedes and is equivalent to the CPC50212 Diploma of Surveying.

**LINKS**

The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at: <https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>