

**QUALIFICATION CODE** CPP50120

**QUALIFICATION TITLE** Diploma of Surveying

### **QUALIFICATION DESCRIPTION**

This qualification reflects the role of skilled surveying technicians. These people hold advanced surveying skills, and perform duties involving the performance of precise measurements and setting out structures using specialised surveying equipment.

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 which demonstrate a candidate's potential to undertake the CPP50120 Diploma of surveying are:

- CPP40216 Certificate IV in Surveying
- CPP40220 Certificate IV in Surveying and Spatial Information Services
- Demonstrated relevant vocational experience, skills and knowledge commensurate with the scope of work covered in the core units of the CPP40220 Certificate IV in Surveying and Spatial Information Services.

### **PACKAGING RULES**

To achieve this qualification, competency must be demonstrated in 16 units of competency consisting of:

- 8 core units
- 8 elective units.

Electives are to be selected as follows:

- 8 units from the electives listed below, or
- 6 units from the electives listed below, plus 2 units which 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**

CPPSIS5047	Conduct GNSS surveys
CPPSIS5048	Conduct engineering surveys
CPPSIS5053	Perform advanced surveying computations
CPPSIS5054	Perform geodetic surveying computations
CPPSIS5057	Conduct precision surveys
CPPSIS5058	Conduct geodetic surveys

CPPSIS5061	Locate underground services in surveying practice
CPPSIS5065	Design basic engineering structures
<b>Elective</b>	
<a href="#"><u>AHCLPW404</u></a>	Produce maps for land management purposes
<a href="#"><u>AVIY0023</u></a>	Launch, control and recover remotely piloted aircraft
<a href="#"><u>AVIY0031</u></a>	Apply principles of law to remote pilot aircraft systems operations
<a href="#"><u>BSBPMG522</u></a>	Undertake project work
<a href="#"><u>BSBXBD401</u></a>	Capture and store big data
<a href="#"><u>BSBXBD403</u></a>	Analyse big data
CPPSIS4038	Prepare and present GIS data
CPPSIS5031	Plan spatial data collection
CPPSIS5032	Capture new spatial data
CPPSIS5040	Interpret and collate spatial data
CPPSIS5044	Develop subdivision survey designs for local government approval
CPPSIS5046	Set out roads and stormwater systems
CPPSIS5049	Plan and implement surveying projects
<a href="#"><u>CPPSIS5050A</u></a>	Create engineering drawings
CPPSIS5051	Apply land and planning law to surveying
CPPSIS5052	Integrate surveying datasets
CPPSIS5060	Develop spreadsheets for spatial data
CPPSIS5062	Conduct photogrammetric mapping
CPPSIS5064	Coordinate GIS data manipulation and analysis
CPPSIS6021	Conduct open pit mine surveys
CPPSIS6022	Produce mine drawings
CPPSIS6033	Conduct underground mine surveys
CPPSIS6037	Conduct advanced remote sensing analysis
<a href="#"><u>MEM23004A</u></a>	Apply technical mathematics
<a href="#"><u>PSPLND002</u></a>	Compile and check survey plans

## **QUALIFICATION MAPPING INFORMATION**

The CPP50220 Diploma of Surveying supersedes and is / is not (TBC) 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>

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## Modification History

### April 2020

Direct feedback obtained at the webinar/meeting held on 3 April 2020 was strong that the Advanced Diploma should not be deleted. Instead the additional electives in the Diploma should be included in the Advanced Diploma as specialisations were considered more appropriate at this level.

The Diploma of Surveying has now reverted to an earlier version with modifications. In response to feedback at the webinar:

CPPSIS5062 Conduct photogrammetric mapping has been added to the electives.

[CPPSIS5050A](#) Create engineering drawings was suggested to update and use as a CAD unit.

Two units relevant to drones have been added to the electives:

[AVIY0023](#) Launch, control and recover remotely piloted aircraft

[AVIY0031](#) Apply principles of law to remote pilot aircraft systems operations

Two units on big data have been added to the electives:

[BSBXBD401](#) Capture and store big data

[BSBXBD403](#) Analyse big data

### March 2020

At the TAG meeting 4 February 2020, it was proposed that the Advanced Diploma of Surveying be deleted and the relevant units from the Advanced Diploma be embedded in a redeveloped Diploma of Surveying. A revised Diploma of Surveying was developed that included mining units from the Advanced Diploma. In addition, units on hydrographic surveying from the NWP National Water Industry Training Package were added to the electives.

The units in the Diploma of Surveying have been reordered and the packaging rules for adjusted which enabled specialisations in Land and Engineering, Mining and Hydrographic surveying. Recommended that CPPSIS5046 Set out stormwater systems be expanded to include roads.

### November 2019

Entry requirements have been added.

Core units increased by 1, from 7 to 8 and the number of elective units reduced by 1, from 9 to 8. Total number of units remains the same.

CPPSIS5057 Conduct precision surveys has been moved from the electives to the core.

CPPSIS5061 Locate underground services has been moved from the electives to the core.

CPPSIS5031 Plan spatial data collection has been moved from the core to the electives.

CPPSIS6037 Conduct advanced remote sensing analysis moved from the Advanced Diploma electives to Diploma electives

### Removed:

CPPCMN4002	Implement and monitor environmentally sustainable work practices
CPPSIS4032	Conduct field surveying operations - NB this was originally removed as it was in the core of the Certificate IV in Surveying. However, in the proposed structure of the Certificate IV, which combines Surveying and Spatial, the unit is the compulsory Group A – Surveying electives.
CPPSIS5037	Maintain spatial data systems
CPPSIS5043	Design spatial data storage systems

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