

**QUALIFICATION CODE** CPP60120

**QUALIFICATION TITLE** Advanced Diploma of Surveying

### **QUALIFICATION DESCRIPTION**

This qualification reflects the role of surveyors who carry out highly specialised surveying functions in areas such as mining and engineering construction. Duties involve carrying out precise measurements and control surveys relating to engineering structures and mine sites using highly 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 CPP60120 Advanced Diploma of surveying are:

- CPP50116 Diploma of Surveying, or
- CPP50120 Diploma of Surveying, or
- Demonstrated relevant vocational experience, skills and knowledge commensurate with the scope of work covered in the core units of CPP50120 Diploma of Surveying.

### **PACKAGING RULES**

To achieve this qualification, competency must be demonstrated in 9 units of competency consisting of:

- 2 core units
- 7 elective units.

Electives are to be chosen as follows:

- up to 7 units from the electives listed below, or
- 5 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**

<a href="#">BSBPMG517</a>	Manage project risk
CPPSSI6032	Conduct advanced GNSS control surveys

#### **Electives**

##### **Land and Engineering**

CPPSSI5044	Develop subdivision survey designs
CPPSSI5046	Set out roads and stormwater systems
CPPSSI5051	Conduct an identification survey

CPPSSI5057	Conduct precision surveys
CPPSSI6035	Conduct complex engineering set-out surveys
CPPSSI6036	Monitor engineering structures
CPPSSI6037	Conduct advanced remote sensing analysis
CPPSSI6040	Develop 2-D and 3-D terrain visualisations

### **Mining**

CPPSSI6021	Conduct open pit mine surveys
CPPSSI6022	Produce mine drawings
CPPSSI6033	Conduct underground mine surveys
CPPSSI6034	Conduct mining geology operations
CPPSSI6041	Compile mine survey plans

### **QUALIFICATION MAPPING INFORMATION**

The CPP60120 Advanced Diploma of Surveying supersedes and is equivalent to the CPP60116 Advanced 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**

### **June 2020**

*CPPSSI6040 Develop 2-D and 3-D terrain visualisations* added to the electives.

New titles for 5044, 5046 and 5051

### **May 2020**

Strong feedback at consultation session held 30 April 2020 to reduce core to a minimum to provide more flexibility and have streamed options in the qualification. Initially it was intended to include hydrography units in the Advanced Diploma electives. However, feedback advised that the units are not appropriate in the Advanced Diploma and instead are suited to the Diploma of Surveying. The rationale is that:

- the Australian Qualifications Framework (AQF) level for the Hydrography units aligns with AQF 5, a Diploma. The units currently sit within the [NWP50118 Diploma of Water Industry Operations](#).
- a Diploma aligns with specialist hydrography certification at Level 2, which is regarded as the technician level. The certifying body is the Australasian Hydrographic Surveyors Certification Panel (AHSCP). AHSCP provides a pathway for certification of hydrographic surveys to international standards. Further information is available at the SSSI website.

The unit *BSBR501 Manage risk* was previously core. Feedback was that this unit was not fit for purpose and it has been replaced by *BSBPMG517 Manage project risk* as it is more relevant to the surveying industry.

Feedback suggested that

The unit *CPPSIS6031 Design basic mines* has not had any enrolments for an extended time and is proposed for deletion. It has been removed from the elective list.

## April 2020

In response to strong feedback received at the webinar/meeting held on 3 April 2020 the Advanced Diploma is to be retained.

The electives bank has been expanded to include imported hydrography units from the NWP National Water Training Package and the electives have been grouped under themes, Land and Engineering, Mining and Hydrography.

## March 2020

At its meeting in February 2020 the TAG proposed to **delete** the Advanced Diploma of Surveying.

Of the 17 units listed for the Advanced Diploma, seven are also in the Diploma of Surveying. It is proposed to transfer the remaining 10 units into the Diploma of Surveying. The Diploma of Surveying is proposed to be redeveloped so that the packaging rules would enable a specialisation in mining.

There is limited uptake of the *Advanced Diploma of Surveying* with only Victoria (RMIT) and WA (North Metropolitan TAFE) currently offering it.

According to NCVER data enrolments are low. In the years 2015 – 2018, WA enrolments averaged around 40 per year and in Victoria around 54 per year.

Feedback from Victoria is that the range of elective units, which focus on mining, does not meet the local needs. In Victoria the *Advanced Diploma of Surveying* provides a recognised pathway with credit into the RMIT degree courses. Under the Australian Qualifications Framework (AQF) a Diploma of Surveying could also be recognised.

In WA the vocational education and training qualifications are associated with the requirements for *The Authorised Mine Surveyor's Certificate of Competency*, details of which are available at [Department of Mines, Industry, Regulation and Safety, WA](#). Both Diploma and Advanced Diploma level are applicable.

Removing the qualification would align with one of the COAG Industry Skills Council reforms to training packages, which is to remove low use qualifications from the system.

## November 2019

### Removed:

CPPSIS6025                      Apply quality control measures to spatial products and services – Removed, transferred to spatial

FNSORG501                      Develop and manage a budget – has been removed.

Recommended that CPPSIS5046 Set out stormwater systems be expanded to include roads.