



**Australian Government**

# **CPP60312 Advanced Diploma of Surveying**

**Release 2**

# CPP60312 Advanced Diploma of Surveying

## Modification History

| Version | Comment  |
|---------|--|
| 2       | <p>Deletion of the Surveying and Spatial units as approved by the Industry Reference Committee Release 12.0 of the CPP Property Services Training Package:</p> <ul style="list-style-type: none"> <li>• CPPSIS6023A - Determine client spatial requirements</li> <li>• CPPSIS6024A - Design a spatial project plan.</li> </ul> |
| 1       | <p>This version first released with CPP07 Property Services Training Package Version 12.</p>   |

## Description

Qualification requirements

This qualification applies to individuals who provide strategic direction in surveying. They analyse, design and execute judgements using wide-ranging highly technical, creative, or conceptual competencies, often in an unpredictable variety of contexts. Their knowledge base may be highly specialised or broad within surveying. These individuals may be responsible for group outcomes and for the overall performance of the surveying services activity of a business unit.

This qualification is suitable for an Australian Apprenticeship pathway.

## Pathways Information

Not applicable.

## Licensing/Regulatory Information

Not applicable.

## Entry Requirements

The entry requirement to this qualification is CPP50112 Diploma of Surveying, or demonstrated equivalent competency.

## Employability Skills Summary

| Employability skill | Industry/enterprise requirements for this qualification |
|---------------------|---|
|                     |   |

| <b>Employability skill</b> | <b>Industry/enterprise requirements for this qualification</b>  |
|----------------------------|---|
| Communication              | <ul style="list-style-type: none"> <li>• apply verbal and written communication skills to:                             <ul style="list-style-type: none"> <li>• build on others' ideas to advance discussion and question others to clarify ideas</li> <li>• encourage feedback</li> <li>• provide clear sequenced oral instructions to others</li> <li>• explore ideas in discussion</li> <li>• listen and question to clarify and elicit information</li> <li>• participate effectively in verbal interactions</li> </ul> </li> <li>• discuss vocational issues effectively with colleagues and impart knowledge and ideas through oral, written and visual means</li> <li>• apply literacy skills to:                             <ul style="list-style-type: none"> <li>• assess and use workplace information</li> <li>• locate and interpret legislation and other written documentation</li> <li>• prepare and manage documentation</li> <li>• read and write technical reports</li> <li>• research and evaluate</li> </ul> </li> <li>• complete required documentation according to organisational guidelines</li> <li>• define and document project objectives, deliverables, constraints, principal work activities and equipment requirements according to spatial data specifications and client requirements</li> <li>• implement and maintain agreed communication processes between project members, clients and other stakeholders</li> </ul> |
| Teamwork                   | <ul style="list-style-type: none"> <li>• inform relevant personnel of the results according to organisational guidelines</li> <li>• relate to people from a range of social, cultural and ethnic backgrounds and with a range of physical and mental abilities</li> <li>• select personnel and work teams for the project activity</li> <li>• work effectively as part of a team</li> </ul>   |
| Problem solving            | <ul style="list-style-type: none"> <li>• apply surveying theory to a range of situations in order to determine, create and facilitate acceptance by users of a suitable spatial data and attribute storage system</li> <li>• determine functional requirements</li> <li>• conduct an audit of existing surveying data sources to determine their suitability, usability, dependencies and adaptability</li> <li>• create and test a prototype or adopt standard format to confirm that design meets functional requirements</li> <li>• apply spatial skills and surveying practise knowledge to:                             <ul style="list-style-type: none"> <li>• understand the holistic implications of height, depth, breadth, dimension, direction and position to actual operational activity</li> </ul> </li> </ul>   |

| <b>Employability skill</b> | <b>Industry/enterprise requirements for this qualification</b>   |
|----------------------------|--|
|                            | <p>and virtual representation</p> <ul style="list-style-type: none"> <li>• exercise precision and accuracy in relation to complex engineering surveying</li> <li>• solve complex problems relating to height, depth, breadth, dimension, direction and position in actual operational activity and virtual representation</li> </ul>   |
| Initiative and enterprise  | <ul style="list-style-type: none"> <li>• create and test system design</li> <li>• apply research and analytical skills to: <ul style="list-style-type: none"> <li>• assemble evidence and evaluate for accuracy and relevance</li> <li>• use and follow academic procedure for research techniques and copyright requirements</li> <li>• use a variety of strategies for planning</li> <li>• apply creative and conceptual skills</li> <li>• apply delegation skills</li> <li>• undertake business negotiation</li> </ul> </li> </ul>  |
| Planning and organising    | <ul style="list-style-type: none"> <li>• apply project management skills, including the ability to meet deadlines</li> <li>• develop a plan based on surveying data capture data set out methodologies and practices, according to jurisdictional requirements</li> <li>• prepare for examination and assessment of product or service quality</li> <li>• implement project management mechanisms to measure, record and report progress of activities in relation to the agreed schedule and planning control processes</li> <li>• organise project resources and use required surveying reference systems</li> </ul> |
| Self-management            | <ul style="list-style-type: none"> <li>• manage time</li> <li>• prioritise activities</li> <li>• adhere to correct OHS practices</li> <li>• comply with, and develop or amend, organisational guidelines</li> </ul>  |
| Learning                   | <ul style="list-style-type: none"> <li>• apply knowledge of organisational policies and guidelines</li> <li>• update skills and knowledge to accommodate changes in environment and equipment, including global navigation satellite system (GNSS) equipment</li> <li>• train others in spatial precision techniques</li> </ul>  |
| Technology                 | <ul style="list-style-type: none"> <li>• use a computer (high technical user level) to complete business documentation and apply software and hardware</li> <li>• assess surveying equipment and software systems for suitability against specification</li> <li>• analyse survey practice procedures</li> <li>• select suitable computing platforms and software systems</li> </ul>   |

| Employability skill | Industry/enterprise requirements for this qualification  |
|---------------------|--|
|                     | <ul style="list-style-type: none"> <li>• use technology to lodge survey plans online</li> <li>• develop geographic information systems to run within the internet and private intranets</li> <li>• check equipment is calibrated to required specifications</li> </ul> |

Due to the high proportion of electives required by this qualification, the industry/enterprise requirements described above for each employability skill are representative of the property industry in general and may not reflect specific job roles. Learning and assessment strategies for this qualification should be based on the requirements of the units of competency for this qualification.

This table is a summary of employability skills that are typical of this qualification and should not be interpreted as definitive.

## Packaging Rules

To achieve this qualification, the candidate must demonstrate competency in:

- 9 units of competency:
  - 4 core units
  - 5 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:

- up to 5 units from the elective units listed below
- up to 2 units may be chosen from other Diploma, Advanced Diploma, Vocational Graduate Certificate or Vocational Graduate Diploma qualifications in CPP07 or another current Training Package or accredited course.

### Core units

|             |  |
|-------------|--|
| CPPSIS6032A | Conduct an advanced GNSS control survey          |
| CPPSIS6035A | Conduct complex engineering set out surveys      |
| CPPSIS6036A | Monitor complex engineering surveying structures |

### Elective units

|             |   |
|-------------|---|
| BSBR501B    | Manage risk   |
| CPCCSV5007A | Undertake site surveys and set-out procedures for building projects     |
| CPPSIS6028A | Conduct design and set out survey                                       |
| CPPSIS5044A | Develop a subdivision survey design for local government approval       |
| CPPSIS5046A | Design a stormwater system  |
| CPPSIS5051A | Apply land and planning law to surveying                                |
| CPPSIS5057A | Carry out a precision survey  |
| CPPSIS6025A | Apply quality control measures to spatial information services industry |
| CPPSIS6031A | Carry out basic mine design   |
| CPPSIS6033A | Conduct underground mine surveying                                      |
| CPPSIS6034A | Conduct mining geology operations                                       |
| CPPSIS6037A | Conduct advanced remote sensing analysis                                |
| CPPSIS6041A | Compile mine survey plans   |
| FNSORG501A  | Develop and manage a budget   |

## Custom Content Section

Not applicable.