



**Australian Government**

# **CPP50212 Diploma of Spatial Information Services**

**Release 2**

# CPP50212 Diploma of Spatial Information Services

## Modification History

Version Comment

- 2 Deletion of the Surveying and Spatial units as approved by the Industry Reference Committee Release 12.0 of the CPP Property Services Training Package:
- CPPSIS5033A - Implement a spatial information services project plan
  - CPPSIS5034A - Determine spatial data requirements
  - CPPSIS5041A - Monitor and control the spatial components of projects
  - CPPSIS5042A - Maintain effective internal and external spatial communication networks
  - CPPSIS5045A - Undertake spatial process improvement to reduce costs and improve service
  - CPPSIS5059A - Determine suitable information sources to create new spatial datasets
  - CPPSIS5063A - Produce GIS data.
- 1 Changed outcome for all native CPP07 core units. Native and imported elective units updated.

## Description

Qualification requirements

This qualification applies to those who provide guidance in spatial information services activity. They analyse, design and execute judgements using wide-ranging technical, creative and conceptual competencies. Their knowledge base may be highly specialised or broad within the surveying and spatial information services (SSIS) field, and they may be responsible for group outcomes.

This qualification is suitable for an Australian Apprenticeship pathway.

## Pathways Information

Not applicable.

## Licensing/Regulatory Information

Not applicable.

## Entry Requirements

Not applicable.

## Employability Skills Summary

| Employability skill    | Industry/enterprise requirements for this qualification include the following facets:   |
|------------------------|---|
| <b>Communication</b>   | <ul style="list-style-type: none"> <li>• communicate data acquisition requirements to relevant personnel</li> <li>• communicate and consult effectively with clients and colleagues</li> <li>• 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> </ul>   |
| <b>Teamwork</b>        | <ul style="list-style-type: none"> <li>• relate to people from a range of social, cultural and ethnic backgrounds and with a range of physical and mental abilities</li> <li>• work effectively as a team</li> <li>• apply team leadership skills</li> <li>• guide staff assisting in the data-collection process</li> <li>• allocate work to individuals matching known competency and capacity to work within organisational policy</li> <li>• consult relevant personnel to identify requirements for spatial data and constraints</li> <li>• refer exception reports to relevant personnel</li> <li>• encourage clients to evaluate spatial product and service options to satisfy their needs according to company requirements</li> <li>• work effectively with business contacts</li> <li>• advise co-workers and supervisors promptly of work implications</li> </ul> |
| <b>Problem solving</b> | <ul style="list-style-type: none"> <li>• evaluate spatial information to apply knowledge to plan future collection requirements</li> <li>• scope spatial data acquisition requirements</li> <li>• analyse client instructions to determine specific needs and spatial data requirements</li> <li>• evaluate available collection options</li> <li>• capture new data using a variety of methods</li> <li>• apply spatial skills to:               <ul style="list-style-type: none"> <li>• understand the holistic implications of height, depth, breadth, dimension, direction and position to actual operational activity and virtual representation</li> </ul> </li> </ul>   |

|                                  |   |
|----------------------------------|---|
| <b>Employability skill</b>       | <b>Industry/enterprise requirements for this qualification include the following facets:</b>  |
|                                  | <ul style="list-style-type: none"> <li>• exercise precision and accuracy in relation to terrain visualisations</li> <li>• solve complex problems relating to height, depth, breadth, dimension, direction and position in actual operational activity and virtual representation</li> </ul>   |
| <b>Initiative and enterprise</b> | <ul style="list-style-type: none"> <li>• select preferred option on the basis of client needs and organisational capability and priorities</li> <li>• develop spatial data collection and validation plan</li> <li>• incorporate technical problems and management requirements and apply appropriate solutions to a range of data collection situations</li> <li>• apply creative and conceptual skills</li> <li>• create 2-D drawings</li> <li>• create and modify a 3-D model or digital elevation model</li> <li>• use a contour plan of an area for analytical purposes</li> </ul> |
| <b>Planning and organising</b>   | <ul style="list-style-type: none"> <li>• plan spatial data collection and validation</li> <li>• plan and execute the data capture process in a supervisory capacity</li> <li>• prepare for data collection</li> <li>• schedule key activities and timelines with full consideration given to specification, available resources and organisational requirements</li> <li>• prepare 2-D or 3-D digital elevation model</li> </ul>  |
| <b>Self-management</b>           | <ul style="list-style-type: none"> <li>• delegate duties</li> <li>• prioritise activities</li> <li>• apply time management skills</li> </ul>  |
| <b>Learning</b>                  | <ul style="list-style-type: none"> <li>• update skills and knowledge to accommodate changes in spatial data acquisition requirements and in operating environment and equipment</li> <li>• train others in spatial precision techniques</li> </ul>  |
| <b>Technology</b>                | <ul style="list-style-type: none"> <li>• use a computer (high technical user level) to complete business documentation</li> <li>• exercise precision and accuracy in relation to the use of electronic equipment</li> <li>• assess spatial computing platforms and software systems for suitability against specification</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:

- 16 units of competency:
  - 7 core units
  - 9 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 9 units from the elective units listed below
- up to 2 units may be chosen from Certificate IV, Diploma or Advanced Diploma qualifications in CPP07 or another current Training Package or accredited course.

### Core units

|             |   |
|-------------|---|
| CPPSIS5031A | Plan spatial data collection and validation                           |
| CPPSIS5032A | Capture new spatial data  |
| CPPSIS5036A | Integrate spatial datasets  |
| CPPSIS5039A | Produce spatial project deliverables                                  |
| CPPSIS5059A | Determine suitable information sources to create new spatial datasets |
| CPPSIS6040A | Develop 2-D and 3-D terrain visualisations                            |

### Elective units

|             |  |
|-------------|--|
| AHCLPW404A  | Produce maps for land management purposes                        |
| BSBFIM501A  | Manage budgets and financial plans                               |
| BSBITU402A  | Develop and use complex spreadsheets                             |
| BSBOHS509A  | Ensure a safe workplace  |
| BSBWOR502B  | Ensure team effectiveness  |
| CPPCMN4002B | Implement and monitor environmentally sustainable work practices |
| CPPSIS5035A | Obtain and validate spatial data                                 |

|             |  |
|-------------|--|
| CPPSIS5037A | Maintain complex spatial data systems                            |
| CPPSIS5038A | Develop a complex spatial and aspatial database                  |
| CPPSIS5040A | Collate and interpret spatial data                               |
| CPPSIS5043A | Design a spatial data storage system                             |
| CPPSIS5060A | Use complex spreadsheets for spatial information                 |
| CPPSIS5062A | Conduct photogrammetric mapping                                  |
| CPPSIS5064A | Manipulate and analyse GIS data                                  |
| ICAICT307A  | Customise packaged software applications for clients             |
| ICAICT308A  | Use advanced features of computer applications                   |
| ICAICT409A  | Develop macros and templates for clients using standard products |
| ICPKN315C   | Apply knowledge and requirements of the multimedia sector        |
| RIIRIS401A  | Apply site risk management system                                |
| PSPLAND302A | Investigate tenure and land use history                          |
| PSPLAND501A | Review planning documents and environmental assessments          |

## Custom Content Section

Not applicable.