Australian Government

CPP40112 Certificate IV in Surveying

Release 2

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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:

- CPPSIS4028A - Organise equipment and supplies
- CPPSIS4033A - Participate in spatial process improvement.

1   Overall number of units required for qualification remains unchanged, but core units reduced from 8 to 7 by removing the following core unit: ICAU2006B Operate computing packages; number of required electives increased from 7 to 8.

Changed outcome for some native CPP07 core units. Imported unit replaced with new native unit. Native and imported elective units updated.

Description

Qualification requirements

This qualification applies to those who use well-developed skills and a broad knowledge base in a wide variety of surveying contexts. They may be responsible for wide-ranging operational surveying technical activity and a defined range of unpredictable problems.

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:

Employability skill	Industry/enterprise requirements for this qualification include the following facets:
Communication	- apply communication skills to discuss vocational issues effectively with colleagues and impart knowledge and ideas through oral, written and visual means - apply literacy skills to: - assess and use workplace information - interpret and understand legal, financial and procedural requirements - process workplace documentation - read and record data and write routine reports - research and access routine sources of spatial data - complete required documentation according to organisational guidelines
Teamwork	- plan and execute set tasks in a team environment - apply interpersonal skills e.g. cooperation and flexibility - relate to people from a range of social, cultural and ethnic backgrounds and with a range of physical and mental abilities - support, and often lead, team debate on the application of various improvement processes - show team leadership - work effectively as part of a team - discuss and evaluate ideas with team to determine viability and compliance with relevant legislation
Problem solving	- solve surveying problems involving circular curves - identify and address any discrepancies between specifications and actual activities - identify problems and communicate to relevant personnel to improve service and prevent recurrence according to organisational guidelines - identify, analyse and evaluate image data to fulfill project requirements - apply spatial skills to: - understand the holistic implications of height, depth, breadth, dimension, direction and position to actual operational activity and virtual representation - exercise precision and accuracy in surveying computations - perform global positioning system data archival and retrieval - perform global positioning system data management and manipulation - perform file management - solve basic problems relating to height, depth, breadth, dimension, direction and position in actual operational activity and virtual

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Employability skill	Industry/enterprise requirements for this qualification include the following facets:
	representation
	• interpret technical task requirements
	• validate and record measurements according to project specifications
	• solve problems involving acquired image data according to organisational policies and principles
Initiative and enterprise	• apply analytical skills to determine the data requirements of a survey project
	• apply negotiation skills
	• create, extract and output information from engineering plans
	• participate in assessing the viability of new ideas and implementing new or improved processes
Planning and organising	• archive spatial data according to project specifications
	• use organisational skills to prioritise activities to meet contractual requirements and to prepare and administer documentation
	• prepare and collect data using basic global positioning system equipment
	• prepare to perform traverse computations
	• plan survey field work
	• plan and adhere to OHS requirements
Self-management	• manage own time and prioritise activities
	• adhere to correct OHS practices
Learning	• update skills and knowledge to accommodate changes in spatial reference systems and in equipment and operations
	• train others in the use of equipment
	• operate global navigation satellite system (GNSS) equipment according to manufacturer specifications and organisational guidelines
Technology	• use computers (technical user level) to complete business documentation
	• use suitable software to communicate with a GNSS receiver
	• conduct navigation operations
	• select and use appropriate tools
	• maintain equipment

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:

- 15 units of competency:
  - 7 core units
  - 8 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 8 units from the elective units listed below
- up to 2 units may be chosen from Certificate III, IV or Diploma qualifications in CPP07 or another current Training Package or accredited course.

Core units

CPPSIS4022A	Store and retrieve spatial data
CPPSIS4025A	Collect basic GNSS data
CPPSIS4026A	Read and interpret image data
CPPSIS4029A	Collect and set out basic surveying data
CPPSIS4030A	Operate surveying equipment
CPPSIS4031A	Perform surveying computations
CPPSIS4037A	Produce computer-aided drawings

Elective units

BSBLED401A	Develop teams and individuals
BSBPMG510A	Manage projects
BSBWOR402A	Promote team effectiveness
CPPCMN4002B	Implement and monitor environmentally sustainable work practices

CPPCMN4005A	Facilitate effective teamwork
CPPCMN4006A	Facilitate effective workplace relationships
CPPDSM3009A	Maintain workplace safety in the property industry
CPPSIS4027A	Organise field services
CPPSIS4032A	Plan and conduct survey expeditions
CPPSIS4036A	Operate spatial software applications
CPPSIS4038A	Prepare and present GIS data
ICADBS502A	Design a database
RIIRIS401A	Apply site risk management system

Custom Content Section

Not applicable.

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