Australian Government

Department of Education, Employment and Workplace Relations

CPP50107 Diploma of Surveying

Release: 1

INDUSTRY SKILLS COUNCILS

Creating Australia's Future

CPP50107 Diploma of Surveying

Modification History

Not Applicable

Description

Not Applicable

Pathways Information

Not Applicable

Licensing/Regulatory Information

Not Applicable

Entry Requirements

Not Applicable

Employability Skills Summary

Employability Skills Qualification Summary	
Employability Skill	**Industry/enterprise requirements for this qualification include the following facets**:
Communication	• apply communication skills • discuss vocational issues effectively with colleagues • impart knowledge and ideas through oral, written and visual means • apply literacy skills to: • assess and use workplace information • locate and interpret legislation and other written documentation • prepare and manage documentation and information flow • read and write key performance reports, including technical reports • research and evaluate (high level) in order to source SIS educational information • document project objectives, deliverables, constraints, principal work activities and equipment requirements according to spatial data specifications and client requirements • implement and maintain agreed communication processes between project members, clients and other stakeholders • complete required documentation promptly, accurately and according to organisational guidelines • implement and apply agreed communication processes between project members, clients and other stakeholders • apply numeracy skills to: • analyse errors • conduct image analysis • interpret and analyse statistics • perform mental calculations • record with accuracy and precision • undertake high level computations
Teamwork	• relate to people from a range of social, cultural and ethnic backgrounds and with a range of physical and mental abilities

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	• present project specifications to relevant personnel • inform relevant personnel of the results according to organisational guidelines
Problem solving	• evaluate spatial information to apply knowledge to plan future collection requirements • scope spatial data acquisition requirements • analyse client instructions to determine specific needs and spatial data requirements • evaluate available collection options • research and adhere to pertinent legal and statutory standards • create, extract and output information from engineering plans • 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 relation to surveying • solve complex problems relating to height, depth, breadth, dimension, direction and position in actual operational activity and virtual representation • design and interpret technical documentation
Initiative and enterprise	• select preferred option on the basis of client needs and organisational capability and priorities • develop spatial data collection and validation plan • create survey drawings using suitable software
Planning and organising	• plan spatial data collection and validation • plan the processes and procedures involved in undertaking field surveys, including access, layout, development and provision of services, according to organisational and OHS guidelines • organise resources for survey operations • prepare computer-aided design environment • implement project management mechanisms to measure, record and report progress of

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	activities in relation to the agreed schedule and plans • archive spatial data according to project specifications
Self-management	• delegate duties • prioritise activities • adhere to OHS requirements throughout the conduct of design and drawing procedures
Learning	• perform file management and train others in this task • perform spatial data archival and retrieval and train others in this task • perform spatial data management and manipulation and train others in this task • train others in spatial precision techniques • update skills and knowledge to accommodate changes in operating environment and equipment • apply knowledge of terminology and nomenclature applicable to surveying
Technology	• use a computer (high technical user level) to develop business documentation • create survey drawings using suitable software • conduct operational elements of surveying operations • understand and apply high-level, relevant engineering-related tasks and associated computations

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

Packaging rules
To achieve recognition at the Diploma level, the candidate must demonstrate

Packaging rules	
competency in the seven core units, plus nine electives (total sixteen units). Up to two of the required electives may be selected from other qualifications aligned at the Certificate IV, Diploma or Advanced Diploma level in this Training Package or from other relevant endorsed Training Package qualifications aligned at the Certificate IV, Diploma or Advanced Diploma level.	
Core units	
CPPSIS5001A	Plan spatial data collection and validation
CPPSIS5017A	Conduct an advanced GPS data collection and set out survey
CPPSIS5018A	Conduct an engineering survey
CPPSIS5020A	Create engineering drawings
CPPSIS5023A	Manage advanced surveying computations
CPPSIS5024A	Perform geodetic surveying computations
CPPSIS5028A	Conduct geodetic surveying
Elective units	
BSBITU402A	Develop and use complex spreadsheets
BSBATSIL502B	Work with the manager
BSBOHS509A	Ensure a safe workplace
CPCCSV5007A	Undertake site surveys and set-out procedures for building projects
CPCCSV5008A	Apply building control legislation to building surveying
CPPCMN4002A	Implement and monitor environmentally sustainable work practices
CPPSIS5003A	Implement a spatial information services project plan
CPPSIS5007A	Maintain complex spatial data systems
CPPSIS5010A	Collate and interpret spatial data
CPPSIS5013A	Design a spatial data storage system

Packaging rules	
CPPSIS5014A	Develop a subdivision survey design for local government approval
CPPSIS5015A	Undertake spatial process improvement to reduce costs and improve service
CPPSIS5016A	Design a stormwater system
CPPSIS5019A	Conduct an engineering surveying project
CPPSIS5021A	Apply land and planning law to surveying
CPPSIS5022A	Integrate surveying datasets
CPPSIS5025A	Plan and conduct major survey expeditions
CPPSIS5026A	Design road and railway
CPPSIS5027A	Carry out a precision survey
CPPSIS5029A	Determine suitable information sources to create new spatial datasets
CPPSIS6001A	Conduct open mine pit surveying
CPPSIS6002A	Create mine drawings
CPPSIS6013A	Conduct underground mine surveying
FDFOPTRWP3A	Report on workplace performance
ICTTC032C	Undertake a civil site survey
MNCO1046A	Apply and monitor systems and methods of mining
LGAPLEM404A	Prepare and present geographic information systems data
LGAPLEM508A	Manipulate and analyse data within geographic information systems
MNQGEN500A	Implement and maintain management plans to control risk
PSPLAND308A	Compile and check survey plans
RTD4507A	Produce maps for land management purposes