

Draft 0.1

This is a draft update to CPPSIS5049 Plan and implement surveying projects:

<https://training.gov.au/Training/Details/CPPSIS5049>.

Code changed to CPPSUR5049.

Changed PCs to active voice.

Changed 'person' to 'candidate' in PE.

Reference to: 'two different surveying projects' in first sentence of PE may be problematic at audit as no specific details provided.

Range of Conditions added to Knowledge Evidence.

I've added mapping info.

TAG will need to reassess this as unit is redeveloped.

Unit of Competency

CPPSUR5049 Plan and implement surveying projects

Modification history

Release	Comments
1	Replaces superseded equivalent CPPSIS5049A Conduct an engineering surveying project. This version first released with CPP Property Services Training Package Version 3.
	Replaces superseded equivalent CPPSIS5049 Plan and implement surveying projects

Application

This unit specifies the skills and knowledge required to plan, monitor and finalise surveying projects to ensure that they meet client requirements and specifications. The unit covers organising resources and planning project tasks to manage risks and contingencies. It also covers project management tasks relating to stakeholder consultation, scheduling, measuring, recording and monitoring work progress. The unit requires knowledge of surveying techniques.

The unit supports those who work under limited supervision in a surveying team.

No licensing, legislative, regulatory, or certification requirements apply to this unit of competency at the time of publication.

Prerequisite Unit

None

Unit Sector

Surveying and spatial information services

Elements and Performance Criteria

1. Plan surveying project tasks.	<ul style="list-style-type: none">1.1 Identify and clarify project, client and organisational requirements and associated activities with appropriate persons.1.2 Identify characteristics of operating environment, and special equipment and resource requirements according to organisational requirements.1.3 Obtain higher authorities to ensure resources and equipment operation comply with project and organisational requirements.1.4 Interpret survey design to identify components to be measured and monitored and identify constraints according to project specifications.1.5 Plan and follow risk management strategies to ensure project complies with legal and statutory standards and organisational requirements.1.6 Schedule project activities and timelines according to available resources, project and organisational requirements.
2. Monitor surveying project.	<ul style="list-style-type: none">2.1 Implement and maintain agreed communication processes between client and other appropriate persons.2.2 Implement project management mechanisms to schedule, measure, record, monitor and report work progress according to organisational requirements.

	2.3 Identified and resolve problems, and manage contingencies according to organisational requirements.
3. Finalise surveying project.	3.1 Finalise and check project for compliance with specifications and organisational requirements. 3.2 Notify appropriate persons of project results according to organisational requirements. 3.3 Complete documentation and archive data according to project and organisational requirements.

Foundation Skills

Candidates require:

- planning and organising skills to:
 - plan and prioritise work to meet survey timeframes and resource constraints
- numeracy skills to:
 - estimate time required for project duration
- oral communication skills to:
 - ask questions to clarify client requirements
 - inform clients and other stakeholders of project progress
- reading skills to:
 - analyse graphical and technical information in engineering plans
 - interpret consultant reports in project specifications
- writing skills to:
 - prepare project reports
 - record technical information in organisational documentation
- technology skills to:
 - use a computer and software to document reports
- problem-solving skills to:
 - apply risk control and contingency strategies to anticipated and identified problems.

Unit Mapping Information

Supersedes and is equivalent to CPPSIS5049 Plan and implement surveying projects

Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPSUR5049 Plan and implement surveying projects

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by planning and implementing two different surveying projects.

While planning and implementing the above surveying projects, the candidate must:

- analyse standards, specifications and information, including plans and drawings to determine project requirements, including necessary equipment and resources
- analyse the operating environment to ensure adequate equipment and resources
- communicate clearly with clients and stakeholders to clarify and report project information
- comply with organisational and legal requirements for:
 - completing records and documentation
 - recording, storing and filing data
- identify and manage project constraints and problems
- plan and implement risk management and contingency strategies
- prepare and document project reports
- use project management techniques to monitor projects to ensure they are completed within required timeframes and comply with specifications and standards.

Knowledge Evidence

To be competent in this unit, a candidate must demonstrate knowledge of:

- accuracy and precision requirements for surveying data
- data reduction and manipulation techniques
- industry-accepted methods for identifying errors and discrepancies in surveying data
- legislative, statutory and industry requirements and standards relating to work tasks
- methodologies for surveying data capture and data set-out
- organisational policies and procedures relating to:
 - client and stakeholder consultation processes
 - health and safety relating to surveying activities
 - reporting and documentation
 - using and allocating resources
- project management techniques for scheduling, measuring and monitoring work progress and planning for risks and contingencies
- spatial data reference systems used for surveying
- surveying techniques.
- appropriate persons:
 - client
 - colleague
 - end user

- engineer
- manager
- registered or qualified surveyor
- stakeholder.

Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to:

- equipment:
 - computer, software and ancillary hardware necessary to prepare surveying project reports
- specifications:
 - organisational policies, procedures and documentation relating to work health and safety
 - specifications for a surveying project, including relevant plans and drawings
- relationships with team members and supervisor:
 - working in a team.

Links

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