



Australian Government

CPPSSI5051 Conduct identification surveys

Release: 1

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Modification History

Release 1 This version first released with CPP Property Services Training Package Release 12.0.

This unit supersedes and is equivalent to CPPSIS5051 Apply land and planning law to surveying.

Application

This unit specifies the skills and knowledge required to apply land and planning law to surveying property title boundaries. It includes marking out urban structures and identifying urban lots and related improvements using cadastral surveying methods and equipment. The unit also includes compiling reports and sketches for submission to an approving authority as part of a development application.

This unit is suitable for skilled surveying technicians and skilled spatial information system (SIS) technicians who use a broad range of cognitive, technical and communication skills to select and apply methods and technologies to analyse information and provide solutions to sometimes complex surveying/spatial information problems.

Surveying and spatial information skills are applied in a range of industry contexts, including town planning, civil construction, mining, engineering, health, agriculture and defence.

All work must be carried out to comply with workplace procedures, in accordance with relevant state/territory regulations that govern surveying work, as well as work health and safety (WHS) legislation and regulations that apply to the workplace.

Cadastral surveying must be undertaken under the supervision of a registered surveyor. Users must check with the relevant regulatory state/territory authority before delivery.

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

Pre-requisite Unit

Nil.

Unit Sector

Surveying and Spatial Information Services

Elements and Performance Criteria

Elements describe the Performance criteria describe what needs to be done to

essential outcomes.	demonstrate achievement of the element.
1 Determine survey requirements.	1.1 Conduct a search on legislative requirements to obtain survey information relating to boundary dimensions, design information, land title information and topographic features. 1.2 Locate survey marks from survey plan and establish position of parcel of land corners. 1.3 Mark the boundary with offset lines and use line marks on long or obstructed boundaries as required. 1.4 Use monumented and non-monumented occupations to establish an azimuth parallel to street boundary. 1.5 Adopt assumed azimuth to enable completion of field survey and calculations and make required adjustments to swing onto azimuth. 1.6 Calculate azimuth derived from marks at opposite extremities of survey. 1.7 Interpret relationship between alignment marks to determine relevant boundaries shown in plans.
2 Meet local and state/territory government regulatory requirements.	2.1 Meet re-mark survey and siting requirements for local government area. 2.2 Adhere to relevant survey regulations relating to supervision and accuracy of surveys, field procedures, and survey searching. 2.3 Prepare field notes according to legislative requirements.
3 Mark-out and calculate identification survey.	3.1 Establish azimuth and calculate boundaries using occupations and monuments or reference marks. 3.2 Calculate position of improvements in relation to boundaries using industry-accepted methods. 3.3 Apply appropriate validation methods to verify positioning of all placed marks and accuracy of data.

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| 4 Prepare survey report. | 4.1 Prepare clear and concise survey report and related sketches suitable to accompany development application. |
| | 4.2 Incorporate physical constraints and environmental impacts of development into report. |

Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit of competency.

Unit Mapping Information

Supersedes and is equivalent to CPPSIS5051 Apply land and planning law to surveying.

Links

Companion volumes to this training package are available at the VETNet website - <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPSSI5051 Conduct identification surveys

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Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by undertaking an identification survey for two different surveying projects:

- one project must be for a greenfield site
- one project must be for additions or renovations on an urban site.

Knowledge Evidence

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

- accuracy and precision requirements for cadastral surveying data
- purpose of monuments in marking lines
- data capture and set-out methodologies used in surveying
- data reduction techniques
- measurements and computations relating to length, angle, elevation and area
- methods for setting up and calibrating surveying equipment
- possible community issues and repercussions relating to permits
- reference and coordinate systems for surveying data, including Australian Height Datum and Map Grid of Australia
- submission process for local government approvals
- legislative requirements and industry standards relating to cadastral surveying and local government planning requirements
- aspects of land and planning law impacting on surveying tasks:
 - common law title
 - community title
 - set-back requirements
 - strata title
 - Torrens title system
 - easements.

Assessment Conditions

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

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting where these skills and knowledge would be performed.

Candidates must have access to:

- surveying equipment
- survey specifications and relevant surveying, construction and engineering plans and drawings
- local land and planning laws.

Links

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