



Australian Government

CPPSSI5044 Develop subdivision survey designs

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 not equivalent to CPPSIS5044 Develop subdivision survey designs for local government approval.

Application

This unit specifies the skills and knowledge required to prepare a detailed subdivision survey design. It includes researching zoning, development control plans, road hierarchy, layout and width, and lot size, shape and orientation. The unit also includes conducting measurements and calculations, and developing plans detailing required information, including boundary dimensions and corners, subdivision lots, features and adjoining information, surrounds, connections and offsets.

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 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 essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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| 1 Clarify compliance requirements applicable to project. | 1.1 Establish client requirements and timelines in consultation with appropriate persons.
1.2 Analyse land and planning law and local government guidelines for development approvals.
1.3 Determine and apply statutory compliance requirements for project.
1.4 Analyse existing plans, drawings, surveying data and photographs to plan service provision. |
| 2 Conduct subdivision survey. | 2.1 Select and use surveying equipment according to manufacturer specifications and organisational requirements.
2.2 Apply safe work practices and use of personal protective equipment (PPE).
2.3 Measure identified components of land to be subdivided and mark subdivision lots according to client service and organisational requirements.
2.4 Reduce measured surveying data according to organisational requirements.
2.5 Use industry-accepted methods to check, validate and record measurements and calculations
2.6 Identify and resolve problems and manage contingencies according to organisational requirements. |
| 3 Produce a detailed design submission for local government. | 3.1 Use surveying data to develop subdivision layout plan showing proposed lot boundaries, lot dimensions, easements, roads, kerb lines and trees to comply with local government requirements.
3.2 Consult appropriate persons to obtain professional advice for input into subdivision submission.
3.3 Determine availability and location of existing utilities. |

- 3.4 Consider and document engineering aspects in subdivision design according to local government requirements.
- 3.5 Comply with relevant legislative requirements and standards for accuracy of survey, field procedures and submission information.
- 3.6 Prepare subdivision submission to incorporate physical constraints and environmental impact of the development according to client service requirements.

Foundation Skills

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

Unit Mapping Information

Supersedes and is not equivalent to CPPSIS5044 Develop subdivision survey designs for local government approval.

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 CPPSSI5044 Develop subdivision survey designs

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Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by developing two subdivision survey design submissions that comply with criteria for local government approval.

For each subdivision survey design, the candidate must:

- obtain information relating to planned subdivisions by conducting research on:
 - boundary dimensions
 - fixing to boundary corners
 - title
 - local government provisions and restrictions relating to subdivision, zoning, heritage and flooding
 - utilities
 - topographic features
- determine survey controls, land dimensions and corners
- locate features, boundaries, surrounds, cadastral connections and offsets
- identify physical constraints and environmental impacts of planned developments on:
 - drainage
 - easements
 - public reserves
- use surveying data and other relevant information to produce plans, including contours.

Knowledge Evidence

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

- legislative and industry requirements and standards relating to:
 - local government planning requirements
 - cadastral surveying
- aspects of land and planning law impacting on surveying tasks:

- common law title
- community title
- residential subdivision provisions
- set-back requirements
- strata title
- Torrens title system
- appropriate persons for professional advice
- land tenure systems appropriate to relevant jurisdiction
- local government approval and submission processes relating to subdivision survey design
- possible community issues and repercussions relating to building permits
- reference and coordinate systems for surveying data, including Australian Height Datum and Map Grid of Australia
- road alignment design and associated computations, data capture and set-out methodologies used in surveying
- industry-accepted standards relating to subdivision survey design
- methods for determining availability of existing utilities.

Assessment Conditions

Assessors must meet 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
- subdivision survey specifications, including relevant surveying, construction or engineering plans and drawings
- relevant legislative and industry requirements and standards relating to cadastral surveying
- local government planning requirements for the jurisdiction
- supervision by a registered surveyor or licensed land surveyor where required by jurisdiction.

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