



Australian Government

CPPSSI5058 Conduct geodetic 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 CPPSIS5058 Conduct geodetic surveys.

Application

This unit specifies the skills and knowledge required to conduct a survey of a land area in which corrections are made for the curvature of the earth's surface. It includes applying reference surfaces and projection planes to geodetic components and performing geodetic calculations. The unit also includes using a range of coordinate systems, such as Map Grid of Australia and Geocentric Datum of Australia to manage surveying data.

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 essential outcomes.

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

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| 1 Prepare for geodetic survey. | 1.1 Analyse standards, specifications and information in plans and drawings to determine survey requirements. |
| | 1.2 Schedule key activities and timelines according to available resources, and project and organisational requirements. |
| | 1.3 Apply safe work practices, use of personal protective equipment (PPE) and strategies to manage risk and contingencies according to organisational requirements. |
| | 1.4 Determine specialised equipment required for geodetic survey according to project specifications. |
| | 1.5 Check equipment for correct operation and functionality according to manufacturer specifications. |
| 2 Plan geodetic survey. | 2.1 Select relevant reference surface and projection plane for geodetic components to meet project requirements. |
| | 2.2 Obtain and validate existing survey control data according to project and organisational requirements. |
| 3 Carry out geodetic surveying tasks. | 3.1 Measure identified surveying components according to project specifications. |
| | 3.2 Reduce measured surveying data according to project requirements and specifications. |
| | 3.3 Validate and record measurements according to project specifications and industry-accepted standards. |
| | 3.4 Identify and resolve discrepancies between specifications and actual results according to organisational requirements. |
| 4 Finalise geodetic survey. | 4.1 Check survey for compliance with project and organisational requirements. |
| | 4.2 Notify appropriate persons of survey results according to organisational requirements. |
| | 4.3 Check and store surveying equipment in accordance with manufacturer specifications and organisational |

requirements.

- 4.4 Record technical information, complete survey documentation and archive data according to organisational 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 equivalent to CPPSIS5058 Conduct geodetic surveys.

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>