



Australian Government

CPPSSI4030 Operate surveying equipment

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 CPPSIS4030 Operate surveying equipment.

Application

This unit specifies the skills and knowledge required to use a range of surveying equipment for data capture or spatial data set-out. It includes selecting, setting up and operating surveying equipment to perform basic measurements, and recording and calculating horizontal and vertical information. It also includes validating and checking data accuracy and performing basic data reductions and manipulation using software.

This unit is suitable for entry-level technicians who use a broad range of cognitive, technical and communication skills to select and apply a range of methods, tools, materials and information to complete routine and non-routine activities and provide and transmit solutions to a variety of predictable and sometimes unpredictable 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.

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| 1 Plan surveying tasks. | 1.1 Identify and clarify task requirements with appropriate persons. |
| | 1.2 Interpret technical and diagrammatic information in task specifications and designs. |
| | 1.3 Review design information to identify components to be measured in consultation with appropriate persons. |
| | 1.4 Select and check surveying equipment to meet task requirements and report problems according to manufacturer and organisational requirements. |
| | 1.5 Identify hazards associated with task, implement control measures to manage risks and report problems according to organisational requirements. |
| 2 Execute surveying tasks. | 2.1 Set up and adjust equipment required to measure identified survey components according to standard operating procedures. |
| | 2.2 Operate equipment and software to manipulate basic spatial data. |
| | 2.3 Cooperate with on-site personnel according to task requirements. |
| | 2.4 Comply with organisational, legislative and manufacturer requirements for working safely. |
| 3 Calculate surveying data. | 3.1 Reduce and manipulate measured surveying data for comparison with design to meet task and organisational requirements. |
| | 3.2 Confirm that measurements and computations meet industry-accepted standards for accuracy. |
| | 3.3 Check data against task requirements and identify and resolve errors in consultation with appropriate persons. |
| | 3.4 Validate and record clear and accurate measurements, computations and field checks according to industry-accepted standards and organisational requirements. |

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| 4 Finalise surveying tasks. | 4.1 Finalise surveying activities and process data according to task and organisational requirements. |
| | 4.2 Record and document measurements and data according to organisational requirements. |
| | 4.3 Pack up and store equipment according to manufacturer specifications and organisational requirements. |
| | 4.4 Report any identified faults and problems with equipment. |
| | 4.5 Complete documentation and store 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 CPPSIS4030 Operate surveying equipment.

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>