



Australian Government

CPPSSI3020 Perform simple surveying and spatial computations

Release: 1

CPPSSI3020 Perform simple surveying and spatial computations

Modification History

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

This unit supersedes and is equivalent to CPPSIS3020 Perform basic surveying computations.

Application

This unit specifies the skills and knowledge required to perform simple computations used in surveying and spatial information services. It includes computations and conversions based on algebra, geometry, trigonometry and statistics. Computations are done on simple regular geometric figures, traverses, angles, bearings, distances, plane coordinates, heights, perimeter and area.

This unit is suitable for surveying or spatial information services assistants working under supervision to perform simple computations associated with field work and data collection. They use cognitive, technical and communication skills to select and apply a range of methods, tools, materials and information to complete routine activities and provide solutions to predictable and sometimes unpredictable problems.

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 simple surveying computations. | 1.1 Identify computational requirements for surveying and spatial tasks. |
| | 1.2 Interpret computational data provided in diagrammatic form. |

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| | 1.3 | Select appropriate tool, handheld device or computer software appropriate for computational task requirements. |
| 2 Calculate simple surveying data. | 2.1 | Perform computations on angles and bearings using a calculator or surveying computations program. |
| | 2.2 | Apply the basic concepts of algebra, geometry and trigonometry to plane geometry and simple regular figures. |
| | 2.3 | Perform calculations relating to geometric figures, areas, angles, bearings, distances, traverses, plane coordinates, heights, perimeters and statistics. |
| | 2.4 | Perform conversions between polar and rectangular coordinates. |
| | 2.5 | Perform computations on the coordinates of a simple closed traverse. |
| 3 Finalise work processes. | 3.1 | Systematically and legibly lay out computations according to organisational requirements and industry-accepted methods. |
| | 3.2 | Record computations and results in an appropriate format according to organisational requirements. |
| | 3.3 | Develop and implement checks to Identify errors in computations. |
| | 3.4 | Finalise computations and conversions and confirm their accuracy. |

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 CPPSIS3020 Perform basic surveying computations.

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>