



Australian Government

Assessment Requirements for CPPSSI4035 Apply GIS software to spatial problems

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 CPPSIS4035 Apply GIS software to solve spatial data problems.

Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by using geographic information system (GIS) software applications to integrate data and show spatial patterns and relationships for identified issues for two different projects.

The candidate must manage and manipulate the following, presenting the results accurately and meaningfully using maps, tables and graphs:

- thematic and continuous raster datasets
- aerial and satellite imagery
- point, line and polygon vector datasets
- aspatial text datasets.

Knowledge Evidence

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

- key features of spatial reference systems
- metadata fields relating to accuracy, currency, extent, availability and datasets
- legislative requirements for accessing, manipulating, reporting and archiving spatial data, including data privacy, copyright and licensing
- querying and browsing techniques for obtaining information from datasets
- calculation and interpretation of univariate statistics:
 - average, median and mode
 - maximum and minimum
 - range
 - standard deviation
 - variance
- graphical methods for representing distributions
- vector and raster data models
- raster geoprocessing techniques:

- reclassifying
- resampling
- combining raster datasets
- extracting from raster datasets
- vector geoprocessing techniques:
 - buffer
 - clip
 - dissolve
 - intersect
 - merge
 - union
 - erase
 - reproject
- file formats for map production
- spatial data storage technology.

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:

- computer with access to GIS software applications
- printer and other hardware necessary for work tasks.

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>