CPPSSI5037 Maintain spatial data systems

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 CPPSIS5037 Maintain spatial data systems.

Application

This unit specifies the skills and knowledge required to implement a full cycle of maintenance of spatial data, including updating, backup, recovery and archiving. It includes analysing spatial data systems to determine maintenance requirements and constraints; confirming the reliability of spatial data by editing, updating and integrating existing and new spatial data; and problem-solving to test and validate data currency and retrieval and backup systems. The unit also includes the use of computers and software to manage spatial data, create metadata, and apply spatial data input, output and distribution technologies.

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

| Artibus Innovation

Elements and Performance Criteria

Elements describe the essential outcomes.	Performance criteria describe what needs to be done to demonstrate achievement of the element.
1 Determine data maintenance requirements.	1.1 Identify and document data maintenance objectives and constraints in consultation with appropriate persons.
	1.2 Analyse data system to determine components to be maintained according to project objectives.
	1.3 Use scripting, queries, macros, networks and remote access when maintaining spatial data systems.
	1.4 Determine and evaluate maintenance techniques according to organisational requirements.
	1.5 Allocate work to appropriate persons and implement supervisory processes to ensure work is completed within time available.
2 Confirm reliability of spatial data.	2.1 Access and check spatial data updates to confirm accuracy and currency and record relevance according to organisational requirements.
	2.2 Check and edit spatial data to ensure it is compatible and in an acceptable format according to project requirements.
	2.3 Maintain integrity and consistency of data according to organisational requirements.
3 Replace spatial data.	3.1 Edit, prepare and integrate existing and new data according to project requirements.
	3.2 Apply error tolerances when manipulating datasets.
	3.3 Test and validate spatial datasets to ensure integrity, quality and currency.
	3.4 Amend and update documentation according to organisational requirements.
4 Carry out backup and	4.1 Implement data backups so that data is accessible in

recovery of spatial data.		contingency situations according to organisational requirements.
	4.2	Test backup system and resolve any problems to confirm that data can be retrieved.
	4.3	Manage contingencies to recover data according to organisational requirements.
5 Archive spatial data.	5.1	Check spatial dataset to be archived for completeness and manipulated where necessary.
	5.2	Create metadata according to organisational requirements.
	5.3	Store archived spatial data in a secure location and record details 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 CPPSIS5037 Maintain spatial data systems.

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