Draft 0.2
This is a draft update to CPPSIS5036 Integrate spatial datasets:
https://training.gov.au/Training/Details/CPPSIS5036

See comments within unit.
Changed PCs to active voice.
PC 1.2 about constraints removed and replace with information taken from Performance Evidence.
PC 2.2 and Pc 2.3 inserted from PE
Changed 'person' to 'candidate' in PE.

Unit of Competency

CPPSSI5036 Integrate spatial datasets

Modification history

Release	Comments
1	Replaces superseded equivalent CPPSIS5036A Integrate spatial datasets. This version first released with CPP Property Services Training Package Version 3
	Supersedes and is equivalent to CPPSIS5036 Integrate spatial datasets

Application

This unit specifies the skills and knowledge required to use technology and software applications to integrate spatial datasets to provide spatially referenced information. The unit covers obtaining spatial and attribute data, creating datasets, and linking spatial and attribute data to meet specifications for spatial data solutions. It also covers analysing and compiling metadata sets, assessing geographic coverage, establishing filtering parameters, and checking and validating the accuracy and integrity of 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, regulations and legislation 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, regulatory, or certification requirements apply to this unit of competency at the time of publication.

Prerequisite Unit

None

Unit Sector

Surveying and Spatial Information Services

Elements and Performance Criteria

1. Prepare to integrate datasets.	1.1 Determine spatially referenced information requirements according to project specifications. 1.2 Apply safe work practices for using screen-based equipment.
2. Obtain spatial and attribute data.	2.1 Use metadata to determine sources of data consistent with project specifications. 2.2 Use industry-accepted software applications to obtain spatial data, create datasets, and link attribute data.

	2.3 Comply with legal requirements relating to data privacy, information copyright and licensing when accessing and using spatial data.
	2.4 Check data for integrity and quality according to project specifications and enterprise requirements.
	2.5 Assess geographic coverage for completeness according to project specifications.
	2.6 Compile metadata set based on sourced spatial data.
	2.7 Prepare exception reports on non-conforming and report to appropriate persons according to enterprise requirements.
3. Create resultant spatial datasets.	3.1 Establish filtering parameters in line with scientific accuracy, redundancy and project specifications.
	3.2 Translate spatial data into industry accepted formats that satisfy project specifications.
	3.3 Populate spatial datasets with edited spatial data according to project specifications and enterprise requirements
4. Link spatial and attribute data.	4.1 Identify method required for referencing location of attribute data according to enterprise requirements.
	4.2 Reference and link spatial and attribute data according to client specifications and enterprise requirements.
	4.3 Carry out spatial queries on spatial data to access attribute data according to project specifications.
5. Test and validate spatial datasets.	5.1 Determine and implement test queries to confirm that spatial datasets meet project specifications and enterprise requirements.
	5.2 Check and validate accuracy and integrity of spatial data and functionality of links and resolve identified problems where required according to enterprise requirements.
	5.3 Complete documentation according to enterprise requirements and notify appropriate persons of project results.

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 CPPSIS5036 Integrate spatial datasets

Links

The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b

Assessment Requirements for CPPSSI5036 Integrate spatial datasets

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by integrating spatial datasets for the purpose of providing spatially referenced information for two different projects.

Knowledge Evidence

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

- principles and methods of data acquisition for photogrammetry, remote sensing, terrestrial survey and hydrography
- database querying techniques and languages
- key features of spatial data
- types of metadata
- legal requirements for accessing and manipulating spatial data, including copyright and licensing
- methods for comparing and checking different spatial datasets
- quality guidelines for validity of spatial data
- software applications used to compute spatial datasets
- key features of spatial coordinate and reference systems
- spatial data formats and structures
- spatial database design tools
- key characteristics of spatial database operation
- spatial dataset integration methods, including role of scale in dataset integration.

Assessment Conditions

Assessors must satisfy 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 appropriate software

Links

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