Draft 0.2
This is a draft update to CPPSIS5032 Capture new spatial data:
https://training.gov.au/Training/Details/CPPSIS5032

Changed PCs to active voice.
PC1.1 reworded
PC 1.3 removed
PC 1.6 removed
PC2.2 reworded
New PC2.3 inserted from Performance Evidence
PC2.5 removed

Removed Element 3 Maintain Equipment and the associated PCs 3.1 – 3.4

References to managing people have been removed.

Removed PC 4.1 (new PC 3.1) as it replicates PC 2.3.
Changed 'person' to 'candidate' in PE.

Unit of Competency

CPPSSI5032 Capture new spatial data

Modification history

Release	Comments
1	Replaces superseded equivalent CPPSIS5032A Capture new spatial data. This version first released with CPP Property Services Training Package Version 3.
	Supersedes and is equivalent to CPPSIS5032 Capture new spatial data

Application

This unit specifies the skills and knowledge required to capture new spatial data to meet client specifications using a variety of data capture methodologies. The unit covers setting up and using specialist equipment and technologies to capture and manipulate spatial data including attributes, topological features and metadata and checking and validating the integrity and accuracy of results.

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 for data collection.	1.1 Review project and client specifications and schedule key activities and timelines according to enterprise requirements.
	1.2 Review and comply with and administrative and legal requirements for data collection according to enterprise requirements.
	1.4 Select equipment and technologies required to capture spatial data according to project specifications.
	1.5 Implement safe work practices when operating equipment and collecting data according to enterprise requirements.

2. Gather spatial data	2.1 Set up and operate equipment and technologies according to manufacturer specifications.
	2.2 Collect data and attributes and relate data to a reference system, according to project specifications.
	2.3 Manage and manipulate spatial data, including attributes and topological structures, using relevant technologies
	2.4 Apply industry-accepted methods for assessing the validity and integrity of spatial data
	2.5 Identify, record and report discrepancies between specifications and collected data.
	2.6 Document metadata according to industry-accepted standards and enterprise requirements.
3. Finalise collection process	3.2 Record data correctly and complete documentation according to project specifications and enterprise requirements.
	3.3 Check and validate data integrity and accuracy according to project specifications.
	3.4 Store data and documentation according to enterprise and licensing 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 CPPSIS5032 Capture new spatial data

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 CPPSSI5032 Capture new spatial data

Modification history

Release	Comments
1	Replaces superseded equivalent CPPSIS5032A Capture new spatial data. This version first released with CPP Property Services Training Package Version 3.
	Supersedes and is equivalent to CPPSIS5032 Capture new spatial data

Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by:

Capturing new spatial data that accurately and precisely collects and records spatial data that meets client specifications for two different projects. Each project must:

- use two of the following pieces of equipment:
  - data logger or other mobile computing device
  - global navigation satellite system (GNSS)
  - laser scanner
  - level
  - sonar
  - Total Station
  - unmanned aerial vehicle.
- use two of the following data capture methodologies:
  - conversion or translation from existing information, including hard copy or digital
  - data logging, including GNSS
  - photogrammetry
  - remote sensing
  - laser scanning
  - sonar
  - tacheometry.

Knowledge Evidence

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

- purpose and uses of data capture technologies and equipmentmethods for validating the integrity of spatial data
- methods for manipulating spatial data using software
- legal requirements for accessing and storing spatial data, including data privacy and copyright and licensing.

Assessment Conditions

Assessors must satisfy the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to:
- computer with software appropriate for spatial data management
    - data privacy and information copyright and licensing.

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