



Australian Government

CPPSIS4022 Store and retrieve spatial data

Release: 1

CPPSIS4022 Store and retrieve spatial data

Modification History

Release 1.

Replaces superseded equivalent CPPSIS4022A Store and retrieve spatial data.

This version first released with CPP Property Services Training Package Version 3.

Application

This unit of competency specifies the outcomes required to store and retrieve spatial data, including digital and hard copy storage. The unit covers locating, storing, and backing up data according to organisational procedures.

The unit supports those who work in support positions in a surveying or spatial information services team in surveying, town planning, cartography, mapping and geographic information systems (GIS).

No licensing, legislative, regulatory, or certification requirements apply to this unit of competency at the time of endorsement.

Pre-requisite Unit

Nil

Unit Sector

Surveying and spatial information services

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe the performance needed to demonstrate achievement of the element. Where bold italicised text is used, further information is detailed in the range of conditions.

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|--------------------------------------|---|
| 1. Prepare spatial data for storage. | 1.1. Task requirements are identified and clarified with <i>appropriate persons</i> . |
| | 1.2. Method of spatial data storage and distribution is selected to ensure access to current data and to comply with organisational requirements. |
| | 1.3. Data index is created to assist in retrieval and storage according to organisational requirements. |
| | 1.4. Data is stored and recorded according to organisational |

requirements.

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|----|-----------------------------------|------|---|
| 2. | Access and retrieve spatial data. | 2.1. | Required spatial data is located and retrieved according to organisational procedures. |
| | | 2.2. | Spatial data is analysed and translated into required format according to task requirements. |
| 3. | Manage spatial data security. | 3.1. | Data security and backup measures are applied to manage risk according to organisational risk management plan and procedures. |
| | | 3.2. | Problems with data security, storage or retrieval are identified and reported according to organisational procedures. |

Foundation Skills

This section describes the language, literacy, numeracy and employment skills essential to performance in this unit but not explicit in the performance criteria.

Skill	Performance feature
Numeracy skills to:	• apply basic measurements and computations to accurately mark and record observations and position.
Reading skills to:	• interpret graphical information obtained from global navigation satellite system (GNSS), GIS or other software.
Writing skills to:	• record digital data • write routine reports detailing problems with data storage or retrieval.
Technology skills to:	• use a range of software applications to access and store data • use querying commands to obtain information from a database.
Problem-solving	• identify storage solutions appropriate to different types of spatial data

- skills to:
- identify contingency procedures in the event of unforeseen risk to data security.

Range of Conditions

This section specifies work environments and conditions that may affect performance. Essential operating conditions that may be present (depending on the work situation, needs of the candidate, accessibility of the item, and local industry and regional contexts) are included. Bold italicised wording, if used in the performance criteria, is detailed below.

- Appropriate persons*** must include at least one of the following:
- client
 - colleague
 - qualified surveyor
 - supervisor or line manager
 - spatial data provider.

Unit Mapping Information

CPPSIS4022A Store and retrieve spatial data

Links

Companion Volume implementation guides are found in VETNet -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPSIS4022 Store and retrieve spatial data

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Performance Evidence

A person demonstrating competency in this unit must satisfy the requirements of the elements, performance criteria, foundation skills and range of conditions of this unit. The person must also store and retrieve digital and hard copy spatial data for three different projects.

While storing and retrieving the above spatial data, the person must:

- follow organisational procedures to apply data security and backup measures
- comply with administrative and legal requirements for storing and retrieving spatial data, including data privacy and information copyright
- comply with organisational requirements for recording data and completing documentation, and when using the equipment specified in the assessment conditions
- create a workable indexing system
- develop and implement risk management plan, including strategies to protect spatial data
- translate spatial data downloaded from global navigation satellite system (GNSS), geographic information system (GIS), and other relevant software applications.

Knowledge Evidence

A person demonstrating competency in this unit must demonstrate knowledge of:

- key features of spatial reference systems
- methods for downloading data from GNSS, GIS and other relevant software applications
- organisational procedures for storing and retrieving digital and hard copy spatial data, including data privacy and information copyright
- spatial data classification and indexing systems
- spatial data querying techniques.

Assessment Conditions

The following must be present and available to learners during assessment activities:

- equipment:
 - data retrieval equipment
 - computer with software appropriate for spatial data storage and retrieval

- hard copy and digital data storage media
- specifications:
 - organisational policies, procedures and documentation relating to:
 - work health and safety
 - data privacy and information copyright
- physical conditions:
 - access to equipped work station
- relationships with team members and supervisor:
 - working in a team.

Timeframe:

- as specified by task and organisational requirements.

Assessor requirements

As a minimum, assessors must satisfy the assessor requirements in the Standards for Registered Training Organisations (RTOs) current at the time of assessment.

Links

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