

**Draft 0.1**

This is a draft update to CPPSIS3021: <https://training.gov.au/Training/Details/CPPSIS3021>.

Code changed to CPPSUR3021.

Changed title to: 'Interpret geographic information systems (GIS) data'

Changed PCs to active voice.

Changed 'person' to 'candidate' in PE.

Range of Conditions added to Knowledge Evidence.

I've added mapping info.

TAG will need to reassess this as unit is redeveloped.

## Unit of Competency

### CPPSUR3021 Interpret geographic information systems (GIS) data

#### Modification history

Release	Comments
1	<del>New unit of competency.</del> <del>This version first released with CPP Property Services Training Package Version 3.</del>
	Replaces superseded equivalent CPPSIS3021

#### Application

This unit specifies the skills and knowledge required to interpret geographic information systems data to identify the basic features of the landscape, including land cover such as vegetation, roads, railways, buildings, water bodies and terrain forms. Image data can include aerial and terrestrial photographs and satellite images. The images can be digital or in hard copy. Mapping or other appropriate software can be used to assist visual interpretation if it is available. The unit requires the ability to apply the principles and methods of visual image interpretation. This unit is restricted to visual interpretation, as digital enhancement of images is covered in CPPSIS4026 Digitally enhance and process image data.

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

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. Identify image and ancillary data.	1.1 Clarify task requirements with appropriate persons. 1.2 Identify possible sources of image data to meet task requirements. 1.3 Clarify constraints in using different types of image data in discussion with appropriate persons. 1.4 Identify and obtain ancillary data that can be used to assist visual interpretation of image.
2. Identify and record basic landscape features.	2.1 Interpret image data visually using interpretation principles and ancillary data, and identify and record features according to task and organisational requirements. 2.2 Discuss and confirm interpreted results with appropriate persons. 2.3 Check ground control targets for photogrammetric mapping to enhance understanding of image data. 2.4 Determine scale according to organisational requirements. 2.5 Store data and complete documents according to organisational requirements.

## Foundation Skills

Candidates require:

- numeracy skills to:
  - measure and calculate scale objects from an image and ancillary data.
- oral communication skills to:
  - ask questions to clarify work tasks
- reading skills to:
  - interpret graphical information, including shapes and patterns within aerial and terrestrial photographs and satellite images
- writing skills to:
  - record details of image features using standard proformas.
- technology skills to:
  - use simple analogue and digital tools to assist with visual interpretation.

## Unit Mapping Information

Supersedes and is equivalent to CPPSIS3021 Visually interpret image data

## Links

Companion Volume Implementation Guide:

<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

## Assessment Requirements for CPPSUR3021 Interpret geographic information systems (GIS) data

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### Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by visually identifying three instances of the following from both an aerial or terrestrial photograph or image, and a satellite image:

- buildings
- rail lines
- roads
- terrain types
- vegetation
- water bodies.

Where images from ground penetrating radar (GPR) are required to be interpreted, the candidate must visually identify three of the basic landscape features listed above from:

- a GPR image display, and
- one of the following:
  - aerial photograph or image
  - satellite image.

While visually interpreting the above image data, the candidate must:

- assess task requirements to clarify types of image data to be accessed and interpreted
- communicate clearly with others to clarify and discuss work tasks
- identify possible sources of image and ancillary data to meet task requirements
- apply the principles and methods of visual image interpretation
- apply ground controls to aerial photographs
- calculate scale from image data
- comply with organisational requirements relating to:
  - accessing and formatting image data
  - data privacy and information copyright
  - health and safety
- conduct basic measurements relating to image data to identify scale
- identify and report constraints and problems with image data
- use organisational proformas to accurately record measurements and data.

### Knowledge Evidence

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

- basic formulas used to calculate scale relating to data images

- basic landscape features that can be identified from image data
- organisational policies and procedures relating to:
  - accessing and formatting image data
  - data privacy and information copyright
  - health and safety
- possible sources of image and ancillary data
- principles and methods of visual image interpretation
- types of image data used in spatial applications.
- appropriate persons:
  - experienced colleague
  - supervisor or line manager.

### Assessment Conditions

Assessors must meet 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:

- specifications:
  - standard operating procedures and documentation relating to data privacy and information copyright
  - suitable image data in hard copy or digital format
- relationships with team members and supervisor:
  - working under supervision.

### Links

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<https://vetnet.education.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>