

Draft 0.1

This is a draft update to CPPSIS4038 Prepare and present GIS data:

<https://training.gov.au/Training/Details/CPPSIS4038>.

Code changed to CPPSUR4038.

Expanded acronym 'GIS' in title to read: 'geographic information system'.

Changed PCs to active voice.

Changed 'person' to 'candidate' in PE.

Reference to: 'two different projects' in first sentence of PE may be problematic at audit as no specific details provided

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

CPPSUR4038 Prepare and present geographic information system (GIS) data

Modification history

Release	Comments
1	Replaces superseded equivalent CPPSIS4038A Prepare and present GIS data. This version first released with CPP Property Services Training Package Version 3.
	Replaces superseded equivalent CPPSIS4038 Prepare and present GIS data

Application

This unit specifies the skills and knowledge required to prepare and present a range of geographic information system (GIS) data using various media. The unit covers consulting and assessing to identify display specifications, and selecting and applying appropriate data formats and presentation media. The unit also covers gathering feedback as the basis for implementing quality improvements. It requires the ability to translate client requirements into an appropriate design and layout, and to adhere to copyright requirements and drawing standards to ensure quality of output.

The unit supports those who work in technical support positions in a surveying and spatial information services team.

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 display of GIS data.	1.1 Determine display specifications in consultation with appropriate persons. 1.2 Assess and display extent, content and intended use of output and display format and select medium according to organisational requirements. 1.3 Set up and check hardware, software and other equipment to ensure correct operation and functionality, and that compliance requirements are met.
2. Format GIS data.	2.1 Access and compile spatial datasets to meet display specifications. 2.2 Transform data formats to meet specifications. 2.3 Check formatted data to ensure compatibility and quality according to display specifications.
3. Display GIS data.	3.1 Present spatial data according to display specifications and organisational requirements. 3.2 Obtain feedback on display from appropriate persons using simple question and answer process. 3.3 Analyse feedback to identify improvements, and rectify display according to organisational requirements.

Foundation Skills

Candidates require:

- initiative and enterprise skills to:
 - translate client requirements into spatial data design and layout
- learning skills to:
 - research and source GIS data
- oral communication skills to:
 - ask questions and listen to responses provided during the feedback process
- reading skills to:
 - interpret graphical information in GIS data
- writing skills to:
 - communicate orders for sourcing spatial data
 - record details of quality improvements
- technology skills to:
 - use computer and software applications to access and manipulate spatial data
 - use querying commands to obtain information from databases
- problem-solving skills to:
 - resolve problems in data compatibility.

Unit Mapping Information

Supersedes and is equivalent to CPPSIS4038 Prepare and present GIS data

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPPSUR4038 Prepare and present geographic information system (GIS) data

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Performance Evidence

To demonstrate competency, a candidate must meet the performance criteria of this unit by preparing and presenting geographic information system (GIS) data for two different projects that use different mediums.

While preparing and presenting the above GIS data, the candidate must:

- communicate clearly with others to negotiate client requirements, clarify work tasks, and seek feedback to improve display
- access GIS data from a range of sources
- apply data formats and media that ensure compatibility of data and comply with display specifications
- comply with administrative and legal requirements for accessing spatial data, including data privacy and information copyright
- comply with organisational requirements and manufacturer specifications when setting up and using the equipment specified in the assessment conditions
- comply with organisational requirements for:
 - health and safety when using screen-based equipment
 - recording data and completing documentation
- present GIS data that complies with quality requirements relating to:
 - accuracy
 - detail
 - format
 - information
 - meeting client requirements
 - timeframe.

Knowledge Evidence

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

- administrative and legal requirements for accessing and presenting digital and hard copy GIS data, including data privacy and information copyright
- basic purpose and use of metadata, including:
 - availability
 - conditions of use
 - coordinate system
 - currency
 - custodian
 - data accuracy
 - data description

- date of acquisition
- licence
- quality
- source
- spatial data acquisition methodologies
- version control
- GIS data formats, including:
 - databases
 - digital graphic output
 - hard copy
 - maps
 - nomenclature
 - plans and diagrams
 - spreadsheets
- display principles, including:
 - colour
 - composition
 - font type
 - legends
 - media
 - scale
 - size
 - symbology
 - text and line style
- organisational requirements for preparing and displaying GIS data, including:
 - accuracy and precision
 - Australian drawing standards
- appropriate persons:
 - client
 - end user
 - 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:

- equipment:
 - computer with access to suitable software
 - hardware, including plotter or printer
 - high resolution computer screen
- specifications:
 - organisational policies and procedures 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.

Links

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