

Draft 0.1

This is a draft update to CPPSIS5062 Conduct photogrammetric mapping:
<https://training.gov.au/Training/Details/CPPSIS5062>

Changed PCs to active voice.

Changed 'person' to 'candidate' in PE.

Range of Conditions (below) has not been added to this unit:

Photogrammetric data must include at least two of the following:

- aerial survey
- computer vision
- geoinformatics
- geomatics engineering images
- GeoPhoto
- stereoplotter
- three-dimensional data acquisition and object reconstruction
- videogrammetry.

Unit of Competency

CPPSUR5062 Conduct photogrammetric mapping

Modification history

Release	Comments
1	Replaces superseded equivalent CPPSIS5062A Conduct photogrammetric mapping. This version first released with CPP Property Services Training Package Version 3.

Application

This unit specifies the skills and knowledge required to interpret information from various types of image data to conduct photogrammetric mapping. The unit covers assessing the survey area and project requirements to determine the types and possible sources of image data to meet project specifications as well as identifying constraints.

The unit also covers visually analysing image data against spatial reference systems and ground controls for photogrammetric mapping. The unit requires the ability to measure and calculate information obtained from image data; identify and resolve problems; and implement project management techniques.

The unit supports those who work in a lead role in a spatial information services team in cartography, mapping and geographic information systems (GIS).

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. Apply photogrammetric data to project.	1.1. Identify project specification and survey area and analyse and apply photogrammetric data to project plan. 1.2. Identify possible sources of image data for mapping purposes according to project specifications. 1.3. Identify properties and constraints of different types of image data according to project specifications.
2. Calculate information from image data.	2.1. Access image data and spatial reference systems are used to clarify properties according to project specifications. 2.2. Check ground controls targeted for photogrammetric mapping to enhance understanding of image data. 2.3. Determine and calculate scale of digital and hard copy image data. 2.4. Identify and resolve problems involving acquired image data according to organisational requirements.
3. Interpret and store image data.	3.1. Use information from acquired photogrammetric data to meet project specifications. 3.2. Store captured data according to organisational requirements.

	3.3. Complete documentation according to organisational requirements.
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Foundation Skills

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

- initiative and enterprise skills to apply spatial reference systems to compare data images.
- learning skills to conduct research to source photogrammetric data.
- numeracy skills to solve complex problems relating to height, depth, dimension, direction and position in actual operational activity and virtual representation.
- oral communication skills to ask questions to clarify data image requirements.
- reading skills to analyse graphical and technical information from maps and photographs.
- writing skills to document technical detail in project plan.
- technology skills to use a computer and software to manipulate and set out image data.
- problem-solving skills to apply ground controls to aerial photographs.

Unit Mapping Information

Supersedes and is equivalent to CPPSIS5062 Conduct photogrammetric mapping

Links

Companion Volume Implementation Guide:

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

Assessment Requirements for CPPSUR5062 Conduct photogrammetric mapping

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Performance Evidence

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

- conducting photogrammetric mapping of data images from a range of sources for two different projects.

While conducting this photogrammetric mapping, the candidate must:

- analyse project specifications to clarify the types of image data required and the project survey area, which include:
 - aerial photographs
 - other forms of digital data in the horizontal or vertical plane
- develop a project plan and implement project management techniques to plan, schedule, monitor and report on project activities
- apply ground controls for photogrammetric mapping, including:
 - pre-marked targets
 - primary ground control
 - post-marked targets
 - secondary control
- analyse photogrammetric images to calculate information and measure and identify scale
- communicate clearly with others to clarify and negotiate project tasks
- comply with organisational requirements relating to:
 - completing records and documentation
 - health and safety when using screen-based equipment
 - data privacy and information copyright
- identify and resolve constraints and problems with image data
- record and interpret statistics with accuracy and precision
- research and access sources of photogrammetric data
- use a computer and software applications to access, analyse and store photogrammetric data.

Knowledge Evidence

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

- legal and administrative requirements for accessing, using and storing photogrammetric data, including data privacy and information copyright
- organisational policies and procedures relating to:
 - accessing and formatting image data and managing quality
 - health and safety when using screen-based equipment
- possible sources of image data
- properties and characteristics of photogrammetric data used in mapping
- relevant industry requirements and standards relating to photogrammetric mapping

- requirements for ground control in the photogrammetric process
- set out and format requirements for image data
- key features of spatial reference systems relating to photogrammetric mapping.

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 and software applications appropriate to conducting photogrammetric mapping
- specifications:
 - organisational policies and procedures relating to:
 - work health and safety
 - data privacy and information copyright
 - project specifications
- physical conditions:
 - access to equipped work station
- relationships with team members and supervisor:
 - working in a team.

Timeframe:

- as specified by project requirements.

Links

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