Draft 0.2
This is a draft update to CPPSIS5062 Conduct photogrammetric mapping:
https://training.gov.au/Training/Details/CPPSIS5062

Changed PCs to active voice.
Elements and Pcs updated .
Changed 'person' to 'candidate' in PE.

Elements and PCs reworded.

Unit of Competency

CPPSSI5062 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1	Replaces superseded equivalent CPPSIS5062A Conduct photogrammetric mapping.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 project specifications and survey area to determine the types and potential sources of image data required. It also covers visually analysing image data against spatial reference systems and ground controls for photogrammetric mapping.

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. Plan photogrammetric mapping project.	1.1. Develop a project plan to monitor and report on project activities. 1.2 Review project specifications and survey area and analyse and apply photogrammetric data to project plan. 1.3. Identify potential sources of image data suitable for project mapping purposes. 1.4 Identify properties and constraints of different types of image data relevant to project specifications.
2. Obtain image data.	2.1. Apply ground controls for photogrammetric mapping if required. 2.2 Source or capture image data according to project requirements.

	2.3 Identify and resolve problems with image acquisition process
3. Process and analyse image data.	3.1 Access image data and use spatial reference systems to cl 3.2 Check ground controls targeted for photogrammetric mapping to assist interpretation of image data as required. 3.3 Calculate information and measurements from photogrammetric images. 3.4 Determine and calculate scale of digital image data. 3.5 Manipulate and set out image data to meet project specifications.
3. Finalise project	3.1 Report on project completion to appropriate persons. 3.2. Store captured data according to enterprise requirements. 3.3. Complete documentation according to enterprise 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 CPPSIS5062 Conduct photogrammetric mapping

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

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Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by conducting photogrammetric mapping for two different projects.

Each mapping must:

- include data images from at least two of the following sources:
  - aerial survey
  - UAV
  - remote sensing data
  - Lidar
  - stereo imagery
  - videogrammetry
  - other forms of digital data in the horizontal or vertical plane.
- create at least two of the following information and measurements for the photogrammetric project:
  - contours line or topographic maps
  - volumetric calculation
  - orthophoto-mosaic
  - stereo models
  - digital elevation model.

Knowledge Evidence

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

- sources of image data
- graphical and technical information from maps and photographs
- properties and characteristics of photogrammetric data used in mapping
- key features of spatial reference systems relating to photogrammetric mapping
- format requirements for image data
- requirements for ground control in photogrammetric mapping
- legal and administrative requirements for accessing, using and storing and backup of photogrammetric data, including data privacy, information copyright, licensing and
- relevant industry standards relating to photogrammetric mapping
- work health and safety requirements for using screen-based equipment.

Assessment Conditions

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

Competency is to be assessed in the workplace or a simulated environment that accurately reflects performance in a real workplace setting where these skills and knowledge would be performed.

Candidates must have access to:

- computer and software applications for conducting photogrammetric mapping enterprise policies and procedures relating to data privacy, information copyright and licensing.

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