



Australian Government

Assessment Requirements for CPPSIS4026

Digitally enhance and process image data

Release: 1

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Modification History

Release 1.

Replaces superseded non-equivalent CPPSIS4026A Read and interpret image data.

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

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 use remote sensing applications to digitally enhance, process and classify two of the following types of image data for two different projects:

- digital aerial photographs
- digital terrestrial images
- images from an unmanned aerial vehicle
- light detection and ranging (LiDAR)
- satellite images.

One of the above projects must have a built environment focus, and the other a natural environment focus.

While digitally enhancing and processing the above image data, the person must:

- analyse project specifications to clarify types of image data required and to identify possible sources of suitable image data
- apply ground controls to aerial photographs
- calculate information in digital and hard copy image data to measure and identify scale
- communicate clearly with others to clarify and discuss work tasks
- comply with industry-accepted standards for processing remotely sensed data
- comply with legislative and organisational requirements relating to data privacy and information copyright
- comply with organisational requirements relating to health and safety when using screen-based equipment, and completing records and documentation
- georeference images
- identify and resolve constraints and problems relating to image data
- identify ground controls, including targets for horizontal and vertical control
- use software applications to access, analyse and enhance image data.

Knowledge Evidence

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

- basic properties and characteristics of image data used in spatial applications
- key features of spectral signatures, discriminant functions, supervised and unsupervised clustering, and ground trothing
- organisational policies and guidelines relating to equipment use, health and safety, and accessing and formatting image data and copyright
- photogrammetric control requirements relating to three-dimensional (3-D) model image data
- possible sources of image data
- set-out and format requirements for image data
- techniques for enhancing image resolution, including basic interpolation.

Assessment Conditions

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

- equipment:
 - computer and software with image enhancement functionality
- specifications:
 - task specifications
 - organisational policies and procedures relating to:
 - work health and safety
 - data privacy and information copyright
- physical conditions:
 - access to equipped workstation
- relationships with team members and supervisor:
 - working in a team.

Timeframe:

- as specified by project 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

Companion Volume implementation guides are found in VETNet -

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