Australian Government

Assessment Requirements for CPPSIS5032 Capture new spatial data

Release: 1

Assessment Requirements for CPPSIS5032 Capture new spatial data

Modification History

Release 1.

Replaces superseded equivalent CPPSIS5032A Capture new spatial data.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 capture new spatial data that meets client specifications for two different projects, with each project using two of the following pieces of equipment:

- data logger or other mobile computing device
- global navigation satellite system (GNSS)
- laser scanner
- level
- sonar
- total station
- unmanned aerial vehicle.

While capturing the above new spatial data, the person must:

- coordinate technical and human resources to undertake scheduled work activities, designate work and provide guidance to staff
- accurately record metadata
- apply contingency measures and risk management strategies to ensure data is collected safely and within project timeframes
- comply with legal, administrative and organisational requirements for:
  - communicating with clients
  - copyright
  - recording and reporting information, and completing documentation
  - using, maintaining and storing tools and equipment
  - working safely and using personal protective equipment (PPE) when collecting data and operating equipment
- apply industry-accepted methods for assessing the validity and integrity of spatial data
- conduct operational maintenance on equipment to ensure good working order
- exercise accuracy and precision when collecting and recording spatial data using two of the following data capture methodologies:
  - aerial

    - conversion or translation from existing information, including hard copy or digital
    - data logging, including GNSS
    - photogrammetry
    - remote sensing
    - scanning
    - sonar
- manage and manipulate spatial data, including entities and attributes and topological structures, using surveying technologies
- plan and organise equipment and supplies required to capture spatial data
- set up, calibrate and use surveying equipment
- use two of the following tools to assist in capturing new spatial data:
    - compass
    - clinometer
    - digital imagery
    - distance measuring wheel
    - tape
    - ultra-high frequency radio.

Knowledge Evidence

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

- legal requirements for accessing and storing spatial data, including copyright
- methods for conducting operational maintenance on surveying equipment
- methods for validating the integrity of spatial data
- organisational policies and procedures relating to:
    - budget and resource constraints
    - client service and communication
    - completing records and documentation
    - using and maintaining equipment
    - work health and safety
- principles of risk management relating to data capture operations
- purpose and uses of various data capture technologies and equipment
- spatial data capture methodologies
- spatial data formats and structures
- key features of spatial reference systems
- supervisory processes required to delegate work tasks and communicate with staff.

Assessment Conditions

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

- equipment and tools:

- as specified in the performance and knowledge evidence
- PPE
- specifications:
  - organisational policies and procedures relating to:
    - work health and safety
    - data privacy and information copyright
- relationships with team members and supervisor:
  - working in a team.

Timeframe:

- as specified by client and 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