Assessment Requirements for CPPSIS5040 Interpret and collate spatial data

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS5040A Collate and interpret spatial data.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 interpret and collate spatial data that meets client requirements for two different projects.

While interpreting and collating the above spatial data, the person must:

- establish project and client requirements for new spatial data
- acquire spatial data from a range of industry-accepted sources
- comply with organisational requirements for:
    - communicating with clients and spatial data providers
    - completing documentation
    - facilitating information and knowledge management processes
    - working safely when using screen-based equipment
- comply with legal requirements relating to client service provision, and accessing and managing spatial data
- exercise precision when retrieving, managing, manipulating and archiving spatial data
- manipulate and analyse geographic information system (GIS) data using GIS software
- query and interpret spatial data using databases
- use industry-accepted methods for assessing validity and integrity of spatial data and resolving errors
- use one of the following statistical tests and methods to verify relevance of data:
    - broad analytical studies to determine estimates of risk
    - making comparisons using basic tests of significance
    - mean, standard deviation, regression analysis and percentage change.

Knowledge Evidence

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

- industry-accepted sources of spatial data, including photogrammetry, remote sensing, terrestrial survey and hydrography
- key features of coordinate reference systems

- GIS software, including ArcInfo, GenaMap and MapInfo
- industry-accepted standards and methods for assessing, verifying and validating spatial datasets and dataset sources
- legal requirements for accessing, storing, retrieving and archiving digital and hard copy spatial data, including data privacy and information copyright
- line instructions and programming for geographical information systems data
- organisational requirements relating to:
    - work health and safety
    - client service
    - information and knowledge management
    - completing documentation
- 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
- types of spatial data storage technologies
- key features of spatial reference systems
- statistical tests and methods used to verify relevance of spatial data
- techniques for manipulating datasets using:
    - command lines
    - general query language, such as structured query language (SQL)
    - programming language
    - scripts
- techniques for operating, querying and browsing spatial databases.

Assessment Conditions

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

- equipment:
    - computer with software appropriate for spatial data management and electronic communication

- printer
- 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.

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