Assessment Requirements for CPPSIS4037 Produce computer-aided drawings

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS4037A Produce computer-aided drawings.

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 a range of software program functions and features to produce two different computer-aided spatial drawings that meet technical specifications.

While producing the above computer-aided spatial drawings, the person must:

- analyse the following specifications to translate requirements into design:
  - measurements and dimensions for objects and space
  - scope for making adjustments
  - technical objectives
  - timeframes for completing work tasks
  - allocated resources
  - specific client requirements
- select and use appropriate equipment and software, as specified in the assessment conditions, to produce spatial drawings
- communicate clearly with others to clarify task requirements and drawing detail
- comply with organisational requirements relating to:
  - completing records and documentation
  - data storage and privacy of information
  - health and safety when using screen-based equipment
- comply with industry-accepted drawing standards and legislation associated with the quality of computer-aided drawings, including:
  - accuracy of measurements, tolerances and information
  - complying with drawing principles, formats and standards for spatial drawings
- exercise precision and accuracy in relation to drawing production
- import a file containing a detail survey, including feature coding and digital terrain data, and produce a drawing containing appropriate symbols and a three-dimensional (3-D) terrain model
- produce drawings using data imported from other software.

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Knowledge Evidence

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

- display principles, including:
    - colour
    - composition
    - font type
    - legends
    - media
    - scale
    - size
    - text and line style
- drawing principles, capabilities and uses in relation to the surveying and spatial information services industry
- industry-accepted drawing standards and common formats, and precision and accuracy requirements for preparing computer-aided drawings
- methods for validating drawings to identify errors
- spatial data storage technology.

Assessment Conditions

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

- equipment:
    - personal computer, including appropriate drawing software and software appropriate for accessing and storing spatial data
    - hardware, including printer, plotter and multimedia devices and peripherals
- specifications:
    - task and design 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
- relationships with client:
    - client consultation required.

Timeframe:

- as specified by task and client 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

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