



Australian Government

CPPSSI4037 Produce computer-aided drawings

Release: 1

CPPSSI4037 Produce computer-aided drawings

Modification History

Release 1 This version first released with CPP Property Services Training Package Release 12.0.

This unit supersedes and is equivalent to CPPSIS4037 Produce computer-aided drawings.

Application

This unit specifies the skills and knowledge required to use appropriate software program functions and features to produce drawings for spatial tasks. It includes analysing task or design specifications, and client needs and setting up software applications. The unit also includes the use of software functions and features to prepare computer-aided spatial drawings in soft and hard copy.

This unit is suitable for entry-level technicians who use a broad range of cognitive, technical and communication skills to select and apply a range of methods, tools, materials and information to complete routine and non-routine activities and provide and transmit solutions to a variety of predictable and sometimes unpredictable 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 (WHS) legislation and regulations 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 or certification requirements apply to this unit at the time of publication.

Pre-requisite Unit

Nil.

Unit Sector

Surveying and Spatial Information Services

Elements and Performance Criteria

Elements describe the Performance criteria describe what needs to be done to

essential outcomes.	demonstrate achievement of the element.
1 Determine drawing requirements.	1.1 Analyse design specifications and clarify client needs to determine drawing requirements and presentation standard. 1.2 Select, set up and check software according to task specifications.
2 Gather data for drawing task.	2.1 Interpret measurements and dimensions required for drawing. 2.2 Determine accuracy and tolerances to be applied to the drawing. 2.3 Import data from other software applications to meet task requirements.
3 Produce spatial drawings.	3.1 Comply with industry-accepted drawing conventions and formats to create spatial data drawings. 3.2 Use software functions and features to prepare and label drawing. 3.3 Review preliminary drawings against task specifications and industry-accepted standards 3.4 Check and validate drawing integrity to ensure precision, accuracy and quality. 3.5 Adjust drawings to meet task specifications and disseminate final drawings to appropriate persons. 3.6 Store data files according to organisational 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 CPPSIS4037 Produce computer-aided drawings.

Links

Companion volumes to this training package are available at the VETNet website -
<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

Assessment Requirements for CPPSSI4037 Produce computer-aided drawings

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Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by selecting and using appropriate software and a range of software program functions and features to produce computer-aided spatial drawings for two different spatial tasks.

Knowledge Evidence

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

- types of computer-aided design software
- software functions and features:
 - arcs
 - dimensions
 - drawing features, such as polylines and texts
 - drawing functions
 - edit functions
 - isometrics and perspectives
 - methods for drawing lines
 - plotting and printing
 - using attributes to make a report
 - view displays
 - working with layers
 - three-dimensional (3-D) techniques, including displaying 3-D views
 - two-dimensional (2-D) coordinate plotting
- display principles:
 - colour
 - composition
 - font type

- legends
- media
- scale
- size
- text and line style
- title block design and content
- drawing conventions and formats in relation to the surveying and spatial information services industry
- methods for validating drawings to identify errors
- spatial data storage technology.

Assessment Conditions

Assessors must meet 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, including appropriate drawing software and software appropriate for accessing and storing spatial data
- hardware, including printer and peripherals
- organisational policies and procedures relating to work health and safety (WHS).

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