

**Draft 0.2**

This is a draft update to CPPSIS6022 Produce mine drawings:

<https://training.gov.au/Training/Details/CPPSIS6022> Produce mine drawings.

Code changed to CPPSSI6022.

Changed PCs to active voice.

PC 2.1 removed – repeated Element

PC 3.3 removed.

Changed 'person' to 'candidate' in PE for consistency.

Range of Conditions added to Knowledge Evidence.

## Unit of Competency

### CPPSI6022 Produce mine drawings

#### Modification history

Release	Comments
1	<del>Replaces superseded equivalent CPPSI6022A Create mine drawings. This version first released with CPP Property Services Training Package Version 3.</del>
	Replaces superseded equivalent CPPSI6022 Produce mine drawings

#### Application

This unit specifies the skills and knowledge required to use high-level design software program functions and features to produce mine drawings. The unit includes linking drawing entities to database attributes and creating and plotting detailed views using various scales.

This unit is suitable for surveyors operating at this level who will use broad theoretical and technical knowledge to analyse information as well as interpret and transmit solutions to unpredictable and sometimes complex surveying/spatial information problems. The unit supports those who work in a technical management role in a mining environment.

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, regulations and legislation 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.

Licensing, legislative, regulatory or certification requirements apply to this unit in some states where mining surveying must be undertaken under the supervision of a registered surveyor. Relevant state and territory regulatory authorities should be consulted to confirm those requirements.

#### Prerequisite Unit

None

#### Unit Sector

Surveying and Spatial Information Services

#### Elements and Performance Criteria

1. Prepare drawing environment.	<ul style="list-style-type: none"><li>1.1 Analyse project specifications and objectives to define and document deliverables, constraints and main work activities in consultation with appropriate persons.</li><li>1.2 Identify standard operating procedures, drawing standards and enterprise requirements for drafting mine drawings.</li><li>1.3 Communicate clearly with clients and stakeholders to clarify drawing requirements and detail.</li><li>1.4 Select, set up and use appropriate hardware and software according to enterprise requirements.</li><li>1.5 Customise menus and drawing defaults to suit project specifications according to enterprise requirements.</li><li>1.6 Create survey database according to enterprise requirements.</li></ul>
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2. Create mine drawings.	2.1 Design drawings to incorporate mines safety requirements according to project specifications. 2.2 Link drawing entities to database attributes to suit project specifications. 2.3 Extract supplementary data from existing mining and engineering plans and drawings to meet project specifications. 2.4 Create detailed views using various scales to meet project specifications. 2.5 Produce plots at required scale to meet project specifications.
3. Produce output.	3.1 Save files in required formats according to enterprise requirements. 3.2 Produce entities from drawing files or database and list in required format to meet project specifications. 3.3 Measure or set out identified spatial components and reduce data to project reference system. 3.4 Calculate and validate mine volumes using captured data and measurements and resolve errors according enterprise requirements.
4. Finalise drawings.	4.1 Finalise and check drawings for compliance with project specifications and enterprise requirements. 4.2 Notify appropriate persons of results according to enterprise requirements. 4.3 Complete documentation and store spatial data according to enterprise 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 CPPSIS6022 Produce mine drawings

### Links

The Companion Volume Implementation Guide for the CPP Property Services Training Package is available at <https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>

## Assessment Requirements for CPPSSI6022 Produce mine drawings

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### Performance Evidence

To demonstrate competency, a candidate must meet the elements and performance criteria of this unit by using a range of design software program functions and features to produce mine drawings that meet technical specifications for two different projects.

Each mine drawing must:

- extract data from existing mining and engineering drawings
- link drawing entities to database attributes
- incorporate mines safety requirements
- include drawings, views and plots at required scale
- include precise and accurate measurements, tolerances and design.

### Knowledge Evidence

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

- drawing functions and features of Autodesk software:
  - arcs
  - area and volumes functions
  - creating output files using designs or survey pick-up data
  - dimensions
  - drawing features, such as polylines and texts
  - drawing functions
  - edit functions
  - grade reports
  - isometrics and perspectives
  - macros
  - methods for drawing lines
  - ore and waste reports
  - two-dimensional (2-D) coordinate plotting.
- design and presentation conventions for mining plans
- application of mathematical concepts and skills to surveying
- methods for validating data and measurements to identify errors
- legal and statutory requirements relating to mining survey plans
- techniques for incorporating surface mining methods and mines safety requirements into mine drawings

### Assessment Conditions

Assessors must meet the requirements for assessors contained in the Standards for Registered Training Organisations.

Assessment must be conducted in the workplace or a simulated workplace using realistic conditions, materials, activities, responsibilities, procedures, safety requirements and environmental considerations.

Candidates must have access to:

- personal computer, including drawing applications and software appropriate for producing mine drawings
- project and design specifications
- documentation relating to legal requirements for mines safety.

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