



Australian Government

CPPSSI6022 Produce mine drawings

Release: 1

CPPSSI6022 Produce mine 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 CPPSIS6022 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. It includes linking drawing entities to database attributes and creating and plotting detailed views using various scales.

This unit is suitable for surveyors who use broad theoretical and technical knowledge to analyse information as well as interpret and provide 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 (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.

Licensing, legislative or certification requirements apply to this unit in some states/territories 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.

Pre-requisite Unit

Nil.

Unit Sector

Surveying and Spatial Information Services

Elements and Performance Criteria

Elements describe the essential outcomes.

Performance criteria describe what needs to be done to demonstrate achievement of the element.

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| 1 Establish drawing | 1.1 Clarify drawing and detail requirements in consultation |
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task.		with appropriate persons.
	1.2	Determine main work activities to achieve required outcomes.
	1.3	Identify potential hazards to be noted on the drawings.
2 Prepare drawing environment.	2.1	Identify standard operating procedures, drawing standards and organisational requirements for drafting mine drawings.
	2.2	Set up and use appropriate software according to organisational requirements.
	2.3	Customise menus and drawing defaults to suit job and organisational requirements.
	2.4	Create survey database according to organisational requirements.
3 Create mine drawings.	3.1	Link drawing entities to database attributes in line with organisational requirements.
	3.2	Extract supplementary data from existing mining plans and drawings to meet job requirements.
	3.3	Incorporate safety requirements into drawings according to project specifications.
	3.4	Create detailed views using various scales to meet job requirements.
	3.5	Save files in required formats according to organisational requirements.
4 Produce output.	4.1	Produce plots at required scale and incorporate relevant supplementary data to meet job requirements.
	4.2	Produce entities from drawing files or database and list in required format to meet project specifications.
	4.3	Use mine reference system to process and reduce identified spatial components.

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| 5 | Finalise drawings. | 5.1 | Finalise and check drawings for compliance with organisational requirements. |
| | | 5.2 | Notify appropriate persons of results according to organisational requirements. |
| | | 5.3 | Complete documentation and store spatial data 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 CPPSIS6022 Produce mine 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 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 computer-aided design (CAD) software functions and features to produce mine drawings that meet technical specifications for two different projects.

For each mine drawing, the candidate must:

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

Knowledge Evidence

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

- drawing functions and features of CAD software:
 - area and volume
 - creating output files using designs or survey pick-up data
 - dimensions
 - edit functions
 - grade reports
 - alternate views
 - macros
 - ore and waste reports
 - two-dimensional (2-D) coordinate plotting
- design and presentation conventions for mining plans
- supplementary data included on plans
- application of mathematical concepts and skills to surveying
- methods for validating data and measurements to identify errors
- legislative requirements relating to mine survey plans.

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 and CAD software
- project and design specifications.

Links

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