



Australian Government

CPPSSI6021 Conduct open pit mine surveys

Release: 1

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Modification History

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

This unit supersedes and is equivalent to CPPSIS6021 Conduct open pit mine surveys.

Application

This unit specifies the skills and knowledge required to survey open pit mining operations. It includes using specialist equipment to measure identified components of an open pit mine; capturing and reducing data; creating mine drawings; and complying with standards, legislation and regulations applicable to the mining industry.

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 mine surveyor role in an open pit mine 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.

- 1 Plan and prepare for open pit mine survey.
 - 1.1 Consult appropriate persons and plans to identify open pit mine survey objectives, specifications and constraints.
 - 1.2 Comply with legislative requirements and industry standards applicable to open pit mining.
 - 1.3 Identify hazards, assess risks of work activities and implement control measures.
 - 1.4 Liaise and collaborate with relevant persons on site according to project requirements.
 - 1.5 Plan survey procedures to support mineral extraction in mine.
 - 1.6 Check mine workings and activities comply with legal boundaries.

- 2 Carry out open pit mine surveying tasks.
 - 2.1 Apply WHS requirements when performing surface mine surveying tasks.
 - 2.2 Measure and set out identified spatial components of open pit mine according to project requirements.
 - 2.3 Reduce measured spatial data for comparison with mine design.
 - 2.4 Create mine drawings as required.
 - 2.5 Use captured data to calculate mine volumes according to project requirements.
 - 2.6 Record and validate measurements according to project requirements.
 - 2.7 Resolve problems and implement contingencies according to project requirements.

- 3 Report open pit mine survey outcomes.
 - 3.1 Finalise survey activities and confirm that contractual and legislative requirements are met.
 - 3.2 Notify appropriate persons of survey results according to organisational requirements.
 - 3.3 Complete documentation and store spatial data according to project and 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 CPPSIS6021 Conduct open pit mine surveys.

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>