



Australian Government

CPPSSI6033 Conduct underground 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 CPPSIS6033 Conduct underground mine surveys.

Application

This unit specifies the skills and knowledge required to conduct underground mine surveying operations that comply with standards, legislation and regulations applicable to the mining industry. It includes identifying objectives, and organising resources and planning to support an underground mine surveying operation. The unit also includes the use of specialised survey equipment to capture and reduce data for the creation of mine drawings.

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 an underground 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), 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 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 Performance criteria describe what needs to be done to

essential outcomes.	demonstrate achievement of the element.
1 Plan underground mine surveying operations.	<ul style="list-style-type: none">1.1 Identify and document surveying objectives, deliverables, constraints, work activities and surveying equipment needs according to spatial data specifications and organisational requirements.1.2 Manage workflow to schedule and measure, record and report progress of activities in relation to agreed plans.1.3 Implement and maintain agreed communication processes between client and other appropriate persons.1.4 Devise and apply risk management and contingency strategies so that project complies with legal and statutory standards and organisational requirements.
2 Prepare for underground mine surveying.	<ul style="list-style-type: none">2.1 Consult appropriate persons and plans to identify underground mine survey objectives, specifications and constraints.2.2 Establish processes and procedures for undertaking underground surveying according to requirements.2.3 Identify surveying techniques applicable to the development of headings in underground mining operations according to project objectives and organisational requirements.2.4 Perform the required check and adjust of equipment prior to commencing survey tasks.
3 Conduct underground mine surveying tasks.	<ul style="list-style-type: none">3.1 Maintain situational awareness of potential hazards and risks.3.2 Measure or set out identified spatial components of mine design according to project specifications.3.3 Reduce measured spatial data for comparison with design.3.4 Create mine drawings as required.3.5 Reduce and use captured data to calculate mine volumes according to project requirements.

- 3.6 Record and validate measurements according to project requirements.
 - 3.7 Resolve problems and implement contingencies according to project requirements.
 - 3.8 Set out underground development according to design parameters.
- 4 Finalise and report project outcomes.
- 4.1 Finalise survey activities and confirm that contractual and legal requirements are met.
 - 4.2 Notify appropriate persons of project results according to organisational requirements.
 - 4.3 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 CPPSIS6033 Conduct underground 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>