



Australian Government

Assessment Requirements for 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.

Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by wearing appropriate personal protective equipment (PPE), safety apparel and equipment for underground work and performing two different activities for underground mine surveys from the list below:

- position and install a laser for directional control
- set out and mark up a series of rings for stope creation
- use a surface control network to establish underground wall stations.

Knowledge Evidence

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

- terminology applicable to underground mining
- graphical and technical information in mining and engineering plans
- mineral exploration methods, including geophysical, geochemical and geological techniques
- stages and methods of exploration
- mining methods for metalliferous and coal mines
- survey requirements for:
 - mine access and egress
 - mine layout
 - service provision
- specialised surveying equipment requirements
- work area accessibility requirements
- accuracy and precision requirements for surveying data
- underground positional accuracy relative to surface representation
- methods to set up and check and adjust specialised surveying equipment
- drilling techniques:

- applicable to blasting in mining operations
- used for sampling rock and unconsolidated sands
- techniques for providing rock stability and ground support
- methods for developing headings in underground mining operations
- methods for maintaining adequate mine ventilation:
 - properties of natural air flow
 - requirements for ventilation plans
 - duties of ventilation officer for an underground mining operation
 - exposure standards for atmospheric contaminants
 - procedures for testing and sampling atmospheric contaminants
 - methods for measuring air velocity and determining air quantity given relevant operational data
 - methods of mechanical and auxiliary ventilation
 - sources of atmospheric contaminants in an underground mining environment
- relevant regulations and legislation relating to the mining industry and underground mining
- work health and safety (WHS) requirements in mining
- risk management and contingency strategies
- duty of care in the mine environment
- client and stakeholder communication
- records and reporting using organisational naming conventions
- techniques for planning, scheduling, measuring and monitoring work progress.

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:

- PPE
- mining and surveying specifications, relevant plans and drawings
- procedures and documentation relating to mining regulations.

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>