



Australian Government

Assessment Requirements for CPPSSI6034 Conduct mining geology project research

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 CPPSIS6034 Conduct mining geology operations.

Performance Evidence

To demonstrate competency a candidate must meet the performance criteria of this unit by conducting and documenting two different projects to measure geological survey components.

For each project, the candidate must:

- report on:
 - geological aspects of potential ore or coal deposits
 - rock types and structures
 - levels of rock stability and ground support
 - methods for obtaining ore and mineral samples
 - potential environmental impacts
- use two of the following pieces of equipment:
 - global navigation satellite system (GNSS)
 - level
 - remote sensing technology
 - tape
 - total station.

Knowledge Evidence

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

- common types of ore and mineral deposits and their physical and chemical characteristics
- mineral exploration methods, including geophysical, geochemical and geological techniques
- methods for obtaining ore and mineral samples
- classification of economic ore or mineral deposits
- physical and chemical characteristics of rock types and structures fundamental to mining operations
- mining methods for metalliferous and/or coal mines

- techniques for providing rock stability and ground support relating to surface and underground mining
- function and use of specialised surveying instruments
- data capture and set-out techniques
- accuracy and precision requirements for mining geology surveying operations
- data reduction and manipulation techniques
- techniques for scheduling, measuring and monitoring work progress, undertaking risk assessment and planning to mitigate risks.

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:

- personal protective equipment (PPE)
- appropriate surveying equipment
- surveying specifications, including relevant plans and drawings
- relevant mines safety legislation and regulations for the jurisdiction.

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>