



Australian Government

Assessment Requirements for CPPSIS6031 Design basic mines

Release: 1

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Modification History

Release 1.

Replaces superseded equivalent CPPSIS6031A Carry out basic mine design.

This version first released with CPP Property Services Training Package Version 3.

Performance Evidence

A person demonstrating competency in this unit must satisfy the requirements of the elements, performance criteria, foundation skills and range of conditions of this unit. The person must also produce two different basic mine designs using a computer and relevant software.

While designing the above basic mines, the person must:

- plan and implement project management mechanisms to ensure the project is completed within required timeframes and complies with specifications and standards
- assess the environment to recognise geological aspects of possible ore deposits
- communicate clearly with clients and others to clarify and report project information
- comply with organisational policies and procedures, legislation, regulations and Australian standards for mine safety when planning mine design
- create basic mine drawings that detail:
 - levels of rock stability and ground support
 - mine design parameters
 - methods for obtaining ore and mineral samples
- perform calculations to measure, reduce and validate spatial data captured from mine surveying.

Knowledge Evidence

A person demonstrating competency in this unit must demonstrate knowledge of:

- accuracy and precision requirements for mine design
- basic characteristics of common ore deposits
- classification of economic mineral deposits and the process involved in presenting a schematic model
- data capture and set-out techniques
- data reduction and manipulation techniques
- legislation, regulations and Australian standards relating to mine safety
- methods for assessing the environment to recognise ore deposits
- methods for obtaining ore and mineral samples
- mineral exploration methods, including geophysical, geochemical and geological techniques

- organisational policies and procedures relating to:
 - client and stakeholder communication
 - using a computer and relevant software
 - mine design, including:
 - mine access
 - layout
 - service provision, such as water, air, power, lighting and dewatering
 - records and reporting
 - risk and contingency management
- project management techniques for scheduling, measuring and monitoring work progress and planning for risks and contingencies
- techniques for providing rock stability and ground support
- key features of underground mining operations.

Assessment Conditions

The following must be present and available to learners during assessment activities:

- equipment:
 - as specified in the performance evidence
- specifications:
 - mining and surveying specifications, including relevant plans and drawings
 - organisational policies, procedures and documentation relating to mine design
 - relevant legislation, regulations and Australian standards for mine safety
- physical conditions:
 - access to equipped work station
- relationships with team members and supervisor:
 - lead role in a team.

Timeframe:

- as specified by project requirements.

Assessor requirements

As a minimum, assessors must satisfy the assessor requirements in the Standards for Registered Training Organisations (RTOs) current at the time of assessment.

Links

Companion Volume implementation guides are found in VETNet -

<https://vetnet.gov.au/Pages/TrainingDocs.aspx?q=6f3f9672-30e8-4835-b348-205dfcf13d9b>