



Australian Government

Assessment Requirements for 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.

Performance Evidence

To demonstrate competency a candidate must meet the elements and performance criteria of this unit by conducting two different projects relevant to open pit mine surveys that include:

- control re-establishment
- set-out of positions for blast holes
- detail/contour survey for water run-off purposes
- calculation of stockpile volumes
- measure of wall faces.

Two of the following pieces of surveying equipment must be used:

- global navigation satellite system (GNSS)
- remote sensing
- laser scanner
- unmanned aerial vehicle (UAV)
- sonar
- total station.

Knowledge Evidence

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

- legislation and regulations relevant to surface mine safety
- terminology applicable to surface mining
- mineral exploration methods, including geophysical, geochemical and geological techniques
- terminology used in relation to common mineral deposits
- operations involved in open pit mining:
 - developing roads and ramps
 - drilling
 - removing interburden

- pre-stripping
- stockpiles, dumps and safety berms
- tailings dams
- types of survey activities associated with open pit mines
- techniques for wall monitoring:
 - required prism locations
 - toe, crest and batter checks
 - scanning technology
- types of explosives and blasting practices applicable to surface mining operations
- functions and use of specialised surveying equipment
- accuracy and precision requirements for surveying data
- technical information in mining plans
- calculations relating to height, depth, dimension, direction, position and volumes.

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)
- relevant mines safety legislation and regulations for the jurisdiction
- surveying specifications, including relevant plans and drawings.

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>