



Australian Government

RIISDM501D Conduct mine surveying operations

Release: 1

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Modification History

Not applicable.

Application

This unit develops a participant's skills and knowledge required to conduct mine surveying operations in the Coal and Metalliferous mining.

This unit is appropriate for those working in management roles.

No licensing, legislation or certification requirements apply to this unit at the time of publication.

Unit Sector

Coal mining

Metalliferous mining

Elements and Performance Criteria

<p>1. Plan and prepare to conduct mine survey operations</p>	<p>1.1 Access, interpret and apply documentation and procedures for conducting mine surveying operations and ensure the work activity is compliant</p> <p>1.2 Identify and schedule key activities and time lines</p> <p>1.3 Identify stakeholders and organise activities in consultation</p> <p>1.4 Identify and plan survey work</p> <p>1.5 Identify, address and report potential risks and hazards</p> <p>1.6 Select and use personal protective equipment</p> <p>1.7 Adhere to emergency procedures</p>
<p>2. Gather data for conducting mine survey operations</p>	<p>2.1 Operate equipment to gather spatial data</p> <p>2.2 Correctly measure identified spatial components</p> <p>2.3 Validate and record measurements</p> <p>2.4 Reduce measured spatial data to project spatial reference system for comparison against design parameters</p> <p>2.5 Identify and record inconsistencies in information</p> <p>2.6 Determine uses and limitations of base data</p>
<p>3. Organise and process data</p>	<p>3.1 Identify the outcomes and elements of systems</p> <p>3.2 Develop systems standards and integrate into data management quality programs</p> <p>3.3 Verify the integrity of base spatial and textual data and process and store data</p> <p>3.4 Verify the integrity of processed data</p> <p>3.5 Select database and collate relevant spatial and textual data in one system for transfer and integration into other systems</p> <p>3.6 Convert and transfer data between systems and media</p> <p>3.7 Administer databases by manipulating information and ensuring the security and maintenance of data</p>
<p>4. Analyse, evaluate and interpret data</p>	<p>4.1 Apply systems to analyse spatial data and information</p> <p>4.2 Determine the accuracy and reliability of spatial data and information</p> <p>4.3 Interpret data to ensure they meet client/stakeholder needs</p> <p>4.4 Enhance or add value to data to increase quality and usability</p> <p>4.5 Collate and relate data to specific areas of operations</p>

5. Assemble data	<p>5.1 Identify, clarify and satisfy stakeholder and operations personnel spatial data requirements</p> <p>5.2 Create specific information from a number of databases to meet needs</p> <p>5.3 Assemble data into useful sets of information</p> <p>5.4 Compile and produce maps, plans and charts</p> <p>5.5 Format data</p>
6. Compile and produce survey records	<p>6.1 Determine the application and limitations of base spatial data</p> <p>6.2 Maintain records of original survey data</p> <p>6.3 Identify, select and apply techniques and technology to present graphical and photographic records to meet client needs</p> <p>6.4 Transfer spatial data between media to provide consolidated digital spatial information, ensuring the accuracy and reliability and maximum potential of the data</p> <p>6.5 Integrate spatial data with other information to provide consolidated digital spatial information, ensuring the accuracy and reliability and maximum potential of the data</p> <p>6.6 Create models of nature or cultural entities and phenomena</p> <p>6.7 Create model files and integrate with other data</p> <p>6.8 Transfer model files between media</p>
7. Complete and present documentation	<p>7.1 Record data accurately</p> <p>7.2 Identify and resolve omissions and gaps in spatial data</p> <p>7.3 Complete promptly and accurately all required documentation</p> <p>7.4 Store all documentation</p> <p>7.5 Prepare information and reports in a format and detail appropriate to the client/stakeholder</p> <p>7.6 Employ appropriate communication and display techniques to present information and reports</p> <p>7.7 Verify the accuracy and reliability of data which are to be certified</p> <p>7.8 Certify and sign-off data and information</p>
8. Maintain survey equipment	<p>8.1 Check survey instruments and ensure accuracy and performance</p> <p>8.2 Calibrate survey instruments to ensure correct and accurate measurements</p> <p>8.3 Ensure safe storage and transport of equipment and survey</p>

	instruments 8.4 Maintain equipment and survey instrument condition and cleanliness
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Foundation Skills

Foundation skills essential to performance are explicit in the performance criteria of this unit. Further information is available in the Resources and Infrastructure Industry Training Package Companion Volume.

Unit Mapping Information

RIISDM501A Conduct mine surveying operations

Links

SkillsDMC RII Companion Volumes - <http://www.skillsdmc.com.au/>