MINING SURVEY

UNIT CODE: LSM/CU/LM/CR/05/6/A

Relationship to Occupational Standards

This unit addresses the unit of competency: Conduct mining survey

Duration of Unit: 120 hours

Unit Description

This unit describes the competencies required to by a surveyor to conduct a reconnaissance, establish surface and underground baseline, measure surface and underground works and prepare mine plans

Summary of Learning Outcomes

- 1. Conduct a reconnaissance
- 2. Establish surface and underground baseline
- 3. Measure surface and underground works
- 4. Prepare mine plans

Learning Outcomes, Content and Suggested Assessment Methods

Learning	Content	Suggested Assessment	
Outcome	EX.	Methods	
1. Conduct a	Meaning of reconnaissance	□ Observation	
reconnaissance	Objectives of reconnaissance	Oral questioning	
	☐ Importance of a	☐ Practicals	
	reconnaissance		
	☐ Safety precautions		
2. Establish	☐ Monumentation of control	☐ Observation	
control points	points	Oral questioning	
	☐ Establishment of vertical	☐ Written tests	
	controls	☐ Practical	
	☐ Establishment of horizontal	assessments	
	controls		
	☐ Transfer of controls from		
	surface to underground		

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3.	Measure	Underground traversing	Observation
	surface and	☐ Levelling	Oral questioning
	underground	☐ Alignment survey	Written tests/
	works	☐ Tunneling survey	sketches
		Determination of mine	
		resource volumes	
		Piling	
		 Drilling 	
4.	Prepare mine	☐ Composition of plans and	Observation
	plans and	reports	Oral questioning
	reports	☐ Format and content of plans	Written
		and reports	tests/drawings and
		Preparation of plans and	sketches
		reports	Practicals
		Certification of plans and	
		reports	

Suggested Delivery Methods

- Lecturing
- Demonstration by trainer
- Practical work by trainee
- Demonstration videos
- Projects
- Group discussions
- Group projects
- Internship and attachements

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Recommended Resources

- Survey instruments
- Stationery
- Survey data
- Measuring tools
- Design software
- Computers
- Online resources
- Reference Text books
- Transportation

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