

<b>Unit Ref</b>	<b>SUM16</b>
<b>Title:</b>	<b>Supervise Underground Mining Activities</b>
<b>Level:</b>	<b>4</b>
<b>Credit value:</b>	<b>13</b>
<b>Guided Learning Hours</b>	<b>110</b>
<b>Learning outcomes</b> <i>The learner will:</i>	<b>Assessment criteria</b> <i>The learner can:</i>
1. Be able to undertake supervision of underground mining operations	<p>1.1 Agree with others the work to be carried out in the area of the mine under their responsibility</p> <p>1.2 Obtain and interpret information (including mine plans) required for undertaking supervisory duties in the mine</p> <p>1.3 Select resources for undertaking supervisory duties and confirm they are fit for purpose</p> <p>1.4 Orientate own position in mine from information provided on mine plan/s</p> <p>1.5 Undertake inspection/s on the area of the mine responsible for, including:-</p> <ul style="list-style-type: none"> <li>• Mine environment (e.g. temperature, dust, humidity)</li> <li>• Airflow</li> <li>• Condition of roadways</li> <li>• Equipment provided for first aid/dealing with an emergency</li> <li>• Communication</li> <li>• Taking environmental readings and responding to results obtained</li> <li>• Escape routes and/or safe havens</li> </ul> <p>1.6 Identify the hazards and risks associated with work activities in the area of the mine responsible for, and ensure suitable controls are implemented</p> <p>1.7 Confirm with relevant personnel that plant and equipment is fit for purpose before allowing work activities to commence</p> <p>1.8 Ensure all personnel wear the appropriate Personal Protective Equipment for the activities being undertaken in accordance with organisational procedures</p> <p>1.9 Ensure personnel undertake work activities in their area of responsibility in compliance with the Safety Management System (SMS)</p> <p>1.10 Check the availability and suitability of the resources required for undertaking work activities in their area of responsibility and suitable completion of the work</p> <p>1.11 Ensure that materials and equipment are stacked/stored/secured safely until required for use</p> <p>1.12 Communicate with others using organisational procedures and the agreed communication methods</p> <p>1.13 Ensure that work area is left in a safe condition on completion of work activities</p> <p>1.14 Demonstrate how to establish an exclusion zone</p> <p>1.15 Complete report/s according to organisational requirements</p>
2. Understand how to supervise underground mining operations	<p>2.1 Explain the organisational approved policies, procedures and practices as appropriate to the area of the mine under their responsibility</p> <p>2.2 Explain the organisational information, communications and reporting arrangements relating to the work activity</p> <p>2.3 Outline principal legislation to be complied with whilst undertaking supervisory duties</p> <p>2.4 Describe the hazards and risks associated with work activities in the area of the mine responsible for, how they affect yourself, others and the work environment, and how they are controlled</p> <p>2.5 Explain organisational requirements relating to provision of mine plans</p> <p>2.6 List the range of plans required to be kept at the mine</p> <p>2.7 Describe who is responsible for amending/reviewing mine plans</p> <p>2.8 Explain what factors may require them to seek clarification or information from appropriate people regarding mine plans</p> <p>2.9 Explain the ventilation system for their area of responsibility</p> <p>2.10 Explain the methods of ground control used in their area of responsibility</p> <p>2.11 Explain organisational requirements for inspections to include:-</p> <ul style="list-style-type: none"> <li>• Parts of mine to be inspected</li> <li>• Frequency at which they are to be carried out</li> <li>• Location/s at which specific environmental readings may need to be taken</li> <li>• Alarm/action levels</li> </ul>

	<ul style="list-style-type: none"> <li>• Action to take should an alarm/action level be reached</li> <li>• Information that needs to be recorded relevant to inspection/s</li> </ul> <p>2.12 Explain organisational procedures for ordering of materials for the area of their responsibility</p> <p>2.13 Explain organisational procedures for checking competence of personnel</p> <p>2.14 Explain limits of their own role and responsibilities</p> <p>2.15 State the main problems that can occur with the work activities, and how to respond to them</p> <p>2.16 Explain the actions to be taken in the event of damage, breakdown or unsatisfactory performance of resources, to include;</p> <ul style="list-style-type: none"> <li>• Plant</li> <li>• Equipment</li> <li>• Tools</li> </ul> <p>2.17 List emergencies that may arise in their area of responsibility and actions to be taken to deal with them in accordance with organisational procedures</p> <p>2.18 Explain what reports and records need to be made on completion of the work, where these should be deposited and why it is important to complete them</p>
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<b>Additional information about the unit</b>	
<b>Unit purpose and aim</b>	The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence supervising underground mining activities within the relevant sector of industry.
<b>Unit expiry date</b>	?
<b>Details of relationship between the unit and relevant NOS or other professional standards</b>	This unit is based on range of NOS units that cover the Supervision of Underground Mining Operations.
<b>Assessment requirements or guidance specified by sector or regulatory body</b>	Must be assessed in accordance with the MP Futures SSO Assessment Strategy and Awarding Organisation qualification implementation guidance
<b>Support for the unit from SSC or other body (If required)</b>	Industry Support
<b>Location of the unit within the subject/sector classification system</b>	4.2
<b>Name of the organisation submitting the unit</b>	Mineral Products Qualifications Council
<b>Availability for use</b>	Restricted
<b>Unit available from</b>	?