

Unit Ref	SUM02
Title:	Identify Health and Safety Hazards and Risks in Mines
Level:	4
Credit value:	5
Guided Learning Hours	25
Learning outcomes <i>The learner will:</i>	Assessment criteria <i>The learner can:</i>
1. Be able to identify and deal with hazards and risks in mines	<p>1.1 Identify hazards encountered in a mine, to include:-</p> <ul style="list-style-type: none"> • Indigenous (originating in) • Imported (brought into) <p>1.2 Identify hazards that may be associated with non-routine occurrences</p> <p>1.3 Determine the range of workers exposed to hazards when work activities overlap</p> <p>1.4 Ascertain the job disciplines exposed to hazards when undertaking work activities</p> <p>1.5 Develop risk assessments for a range of work activities carried out in the mine</p> <p>1.6 Demonstrate how to encourage suggestions from staff when developing risk assessments</p> <p>1.7 Demonstrate the recording of risk assessments to organisational requirements</p> <p>1.8 Demonstrate dynamic risk assessment</p> <p>1.9 Produce evidence of having controlled a hazard</p> <p>1.10 Provide an example of paperwork associated with a safe system of work for a mine work activity</p> <p>1.11 Provide evidence of making suggestions to responsible person for controlling or reducing risks</p> <p>1.12 Demonstrate the review of risk assessments</p> <p>1.13 Provide evidence of where training needs have been identified in relation to identifying hazards and risks</p> <p>1.14 Provide evidence that training need has been addressed in relation to identifying hazards and risks</p> <p>1.15 Complete examples of health and safety related documents or records relevant to job role</p>
2. Understand how to identify and deal with hazards and risks in mines	<p>2.1 Define the terms:-</p> <ul style="list-style-type: none"> • hazard • risk • accident • danger • accident rate • frequency • severity <p>2.2 Explain principal occupational health risks associated with working in mines, to include:-</p> <ul style="list-style-type: none"> • chemical • physical • ergonomic <p>2.3 Explain what hazard monitoring methods are in place at a mine, to include:-</p> <ul style="list-style-type: none"> • Formal • Informal <p>2.4 Explain what control methods are used in a mine to control hazards</p> <p>2.5 Describe the protective devices that are used in a mine to reduce risk from hazards</p> <p>2.6 Explain how maintenance of equipment reduces risks from hazards</p>

	<p>2.7 Explain the meaning of the following terms:-</p> <ul style="list-style-type: none"> • Condition based maintenance • Preventative planned maintenance • Scheduled maintenance • Total preventative maintenance <p>2.8 Give examples of where condition based maintenance, preventative planned maintenance, scheduled maintenance and total preventative maintenance will be used</p> <p>2.9 Explain principal legislative requirements for risk assessments</p> <p>2.10 Explain organisational requirements for carrying out risk assessments</p> <p>2.11 State organisational requirements relating to maintaining records of risk assessments</p> <p>2.12 Describe the principal steps to be followed when carrying out a risk assessment</p> <p>2.13 Define the term “safe system of work”</p> <p>2.14 List the range of job disciplines involved in work activities at the mine</p> <p>2.15 List the range of specialists employed at mines who may be able to assist in developing risk assessments</p> <p>2.16 Explain what other managers or specialists external to the mine may be consulted when developing risk assessments</p> <p>2.17 Explain the range of information sources that may be used when developing risk assessments</p> <p>2.18 Explain why documents relating to internal accidents, incidents, near misses, cases of occupational illnesses may be useful when developing a risk assessment</p> <p>2.19 Explain what constitutes a high risk hazard in a mine and how it would be controlled</p> <p>2.20 Explain own responsibilities and limitations for dealing with a high risk hazard</p> <p>2.21 Explain how and to who a high risk hazard would be reported in accordance with organisational procedures</p> <p>2.22 Explain what constitutes a low risk hazard in a mine</p> <p>2.23 Explain own responsibilities and limitations for dealing with a low risk hazard</p> <p>2.24 Describe the advantages of involving relevant subordinates in developing risk assessments</p> <p>2.25 Explain limitations of risk assessment if subordinates have not been consulted during development stage</p> <p>2.26 Explain relevance of interviewing and questioning techniques when encouraging suggestions from subordinates</p> <p>2.27 Explain how details of hazards and control measures are communicated to subordinates</p> <p>2.28 Explain common methods used at a mine to motivate subordinates to become involved in reducing risks at the mine</p> <p>2.29 Explain reporting procedures for controlling or reducing risks at a mine, to include:-</p> <ul style="list-style-type: none"> • Formal • Informal <p>2.30 Outline your role and responsibility relevant to the identification of hazards and risk and how it is influenced by the following,</p> <ul style="list-style-type: none"> • The Safety Management System (SMS) • The Competence Management System (CMS) • Current legislation <p>2.31 Describe what topics should be included in an induction scheme</p> <p>2.32 Explain why mines use induction schemes</p> <p>2.33 Describe the methods used in mines to check an individual’s competency to</p>
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	undertake work activities 2.34 Explain ways in which it is possible to identify an individual's training needs 2.35 Explain what action to take if a person is deemed not to be competent to carry out a work activity 2.36 Explain organisational procedure for ensuring that further training is undertaken 2.37 List the health and safety documents that need to be retained at the mine 2.38 State retention period for each health and safety document listed 2.39 Explain how health and safety related documents should be stored
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Additional information about the unit	
Unit purpose and aim	The aim of this unit is to illustrate the skills, knowledge and understanding required to confirm competence of Identifying health and safety hazards and risks in mines.
Unit expiry date	?
Details of relationship between the unit and relevant NOS or other professional standards	This unit covers NOS unit SUM02 – Identify Health and Safety Hazards and Risks in Mines in full.
Assessment requirements or guidance specified by sector or regulatory body	Must be assessed in accordance with the MP Futures SSO Assessment Strategy and Awarding Organisation qualification implementation guidance
Support for the unit from SSC or other body (If required)	Industry Support
Location of the unit within the subject/sector classification system	4.2
Name of the organisation submitting the unit	Mineral Products Qualifications Council
Availability for use	Restricted
Unit available from	?