

23 August 2024

Mining engineering manager of underground coal mines

Prerequisites and written exam details

1. Prerequisites

An application for examination must be accompanied by evidence that you have the following:

Prerequisite	Requirement
Tertiary or vocational qualification	Any one of the following: • Bachelor of Mining Engineering issued by an Australian university, or • RII60320 Advanced Diploma of Underground Coal Mining Management issued by a registered training organisation (the superseded qualifications RII60315 & RII60313 Advanced Diploma of Underground Coal Mining Management, or other equivalent superseded unit number is acceptable) If you hold a qualification/unit of competence that is not specified as a prerequisite, refer to Fact sheet - Recognition of qualifications and units of competence.
Practical experience	A minimum of five years* practical underground coal mine experience, including: • a minimum three years being present: — with a minimum 1 year at an extraction face during production or development works and — during other mining activities (this must be included in the five years of experience required above) • a minimum two years in a supervisory role responsible for the control and management of underground coal mining operations, with minimum 1 year in mining activities at the mine.

Prerequisite	Requirement
	(* in the five years of experience, up to one year in any other class of mine may be included) Your experience must be verifiable and/or signed off by a supervising manager who held a Mining Engineering Manager of underground coal mines practising certificate at the time of your employment (or an interstate equivalent or relevant). Refer to the Guide: Applying for a certificate of competence for more details.
Emergency preparedness unit	RIIERR602E Establish and maintain underground coal mine emergency preparedness and response systems, issued by a registered training organisation *The superseded unit numbers RIIERR602D & RIIERR602A Establish and maintain underground coal mine emergency preparedness and response systems or other equivalent superseded unit number, is acceptable. If you hold a qualification/unit of competence that is not specified as a prerequisite, refer to Fact sheet - Recognition of qualifications and units of competence.
Portfolio of evidence	You must attach the following documents as evidence of your competence which must be relevant to the function. Your name must be in the document as evidence you were involved. If not, then you must have your supervisor/manager sign off the document confirming your involvement or attach another document confirming eg email. You may attach multiple documents to provide sufficient evidence: • Risk assessment - a copy of a WHS risk assessment that you were involved in at your mine during the last three years • Workplace inspection - a copy of a WHS workplace inspection, task observation or audit, that you carried out and documented for your mine in the last three years • Review of principle hazard management plan or control plan - evidence, such as a report, of your involvement in reviewing a principal hazard management plan or control plan at your mine • Shift handover report, shift work plan or compliance report - a copy of a WHS shift handover report, shift work plan or compliance report that you completed in the last six months. For a shift handover report, the document must include your name and role.

Prerequisite	Requirement
	- Delivery of workplace training program - evidence of a WHS related training program in a mining or related field that you were involved in developing and delivering for workers in full or part of it at your mine (eg. toolbox talks, shift or work group briefings). As an alternative a completed sign on list of attendees may be provided, with your name on it as the trainer, as evidence that you delivered it. - Safe work procedure or related document for standard setting - a copy of a safe work procedure or related document for standard setting (eg. work instruction, work order job detail) that you actioned at your mine during the last five years For more information about portfolio requirements refer to the Portfolio requirements: certificate of competence examination process
Identity verification	Refer to the Factsheet: Certifying documents and verifying identity

2. Written examination details

The written examination consists of the following papers:

Paper	Method of Examination	Duration of Paper
MB1 - Legislation	Closed book	1 hour
MB2 - Mine Ventilation	Closed book	3 hours
MB3 – Coal mining practice	Closed book	3 hours

2.1. MB1 – Legislation

You will be required to demonstrate a working knowledge of the Work Health and Safety Act 2011, Work Health and Safety (Mines and Petroleum Sites) Act 2013, Explosives Act 2003 and their supporting Regulations as they relate to the duties of a mining engineering manager.

2.2. MB2 – Mine ventilation

You will be required to provide answers to practical problems having regard to safety considerations and legal requirements using mine plans supplied.

One question will be based on overall ventilation of a mine relative to the environment described in the question. The other question will be a combination of practical application of ventilation related management systems and providing solutions to ventilation related problems.

You will need to demonstrate your knowledge of where equipment is located according to ventilation requirements and what actions are performed to comply with legislative obligations. You will need to make certain assumptions about the mining workplace to answer the questions and provide an explanation as to how the assumptions relate to the mining workplace described in the question.

2.3. MB3 – Coal mining practice

This paper will deal with the interpretation and application of mining and engineering principles together with relevant aspects of mining legislation. You will be expected to have knowledge of safe working procedures and the causes and prevention of mine incidents.

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