

ELECTRICAL ENGINEERING MANAGER OF UNDERGROUND COAL MINES

Prerequisites and written examination details

1. Prerequisites

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

PREREQUISITE	REQUIREMENT
Tertiary or vocational qualification	<p>Any one of the following:</p> <ul style="list-style-type: none">■ Bachelor of Engineering (Electrical) issued by an Australian university, or■ UEE62320 Advanced Diploma of Electrical Engineering – Coal Mining issued by a registered training organisation (the superseded unit number UEE62311 Advanced Diploma of Electrical Engineering – Coal Mining or other equivalent superseded unit number, is acceptable), or■ UEE62220 Advanced Diploma of Electrical Engineering issued by a registered training organisation (the superseded unit number UEE62211 Advanced Diploma of Electrical Engineering or other equivalent superseded unit, is acceptable). <p>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.</p>

PREREQUISITE	REQUIREMENT
Practical experience	<p>A minimum of five years practical underground coal mine experience, including:</p> <ul style="list-style-type: none"> ■ a minimum 2 years involved in the installation, commissioning, maintenance and repair of electrical plant and installations (this must be part of the five years of experience required above) □ within that 2 years' experience above, one year must involve for electrical plant and installations: <ul style="list-style-type: none"> ● a minimum 6 months at an extraction face during production or development works and ● during other mining activities ■ a minimum 2 years in a supervisory role responsible for electrical plant and installations at an underground coal mine <p>* in the 5 years of experience, up to one year in any other class of mine and up to one year working as an electrical engineer in another industry may be included.</p> <p>Your experience must be verifiable and/or signed off by your supervising manager who holds an Electrical Engineering Manager of underground coal mines practising certificate.</p>
Identity verification	Refer to the Fact sheet: Certifying documents and verifying identity .
Emergency preparedness unit	<p>RIIERR602E Establish and maintain underground coal mine emergency preparedness and response systems, issued by a registered training organisation</p> <p>*The superseded unit numbers RIIERR602D & RIIERR602A Establish and maintain underground coal mine emergency preparedness and response systems, or other equivalent superseded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.</p> <p>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.</p>

PREREQUISITE	REQUIREMENT
Portfolio of evidence	<p>You must attach the following documents as evidence of your competence:</p> <ol style="list-style-type: none"> 1. Risk assessment – a copy of a WHS risk assessment that you were involved in at your mine during the past 3 years 2. Workplace inspection - a copy of a WHS workplace inspection, task observation or audit, that you carried out and documented for your mine in the past 3 years 3. 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 4. 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 5. Delivery of workplace training program (may include mentoring or coaching) - 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 (e.g. toolbox talks, shift or work group briefings) 6. Safe work procedure or related document for standard setting - a copy of a safe work procedure or related document for standard setting (e.g. work instruction, work order job detail) that you actioned at your mine during the past 3 years <p>For more information about portfolio requirements refer to the Portfolio requirements: certificate of competence examination process.</p>
Identity verification	Refer to the Fact sheet: Certifying documents and verifying identity .

2. Written examination details

The written examination consists of the following papers:

PAPER	METHOD OF EXAMINATION	DURATION OF PAPER
CEE1 – Electrical engineering applied to coal mines	Closed book	3 hours

PAPER	METHOD OF EXAMINATION	DURATION OF PAPER
CEE2 – Legislation & Australian Standards applicable to underground mines	Closed book	3 hours

2.1. CEE1 – Electrical engineering applied to coal mines

This paper will deal with the interpretation and application of mining and engineering principles and Australian Standards together with relevant aspects of mining legislation. You will be expected to have a working knowledge of:

- knowledge of safe working procedures and the causes and prevention of mine incidents.
- identification and management of electrical hazards for different mining operations
- maintenance and operation of electrical plant and structures regularly used at that type of mine, including explosion protected plant.

2.2. CEE2 – Legislation & Australian Standards applicable to underground mines

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*, and their supporting regulations, as they relate to the duties of an electrical engineering manager of underground coal mines. You will also be required to:

- understand the implications and management of gazettal notices related to the electrical engineering aspects of coal mines.
- know all the legislative requirements for the role, and the specific requirements for the Electrical Engineering Control Plan for that type of mine
- demonstrate a working knowledge on key Australia Standards applicable to coal mining.