



## EXAMINERS REPORT | CERTIFICATE OF COMPETENCE

# Mechanical engineer of coal mines other than underground coal mines

August 2016

## Summary of written results

Date:	1 August 2016
Number who passed:	1 out of 2
Average overall mark:	52.13%

**Please note: Some data is not provided, as doing so may disclose individual's marks or result.**

## CME3 – Safety and mining legislation applicable to open-cut coal mines

### Question 1 (total 25 marks)

Average mark: 19.5/25

#### Examiners comments

Overall this question was well-answered with a good understanding of incident notification and incident investigation process. Comments from candidates however suggested that completing the incident notification form took longer than expected.

### Question 2 (total 25 marks)

Average mark: 16/25

#### Examiners comments

This question was reasonably well-answered, although a more thorough understanding of the WHS legislation would have assisted the depth of answers.

### Question 3 (total 25 marks)

Average mark: 9.5/25

#### Examiners comments

A poorly answered question due to a lack of detail provided in relation to managing risks associated with plant and a lack of reference to relevant legislation.

### Question 4 (total 25 marks)

Average mark: 16.5/25

#### Examiners comments

A reasonably well-answered question demonstrating a fair knowledge of the hazards, controls and longer term recommendations for asset management and operation of a coal handling bin. A better understanding of high-risk activities as defined in the WHS (Mines and Petroleum Sites) Regulation would have improved the mark.

## Question 5 (total 25 marks)

Average mark: 18.5/25

### Examiners Comments

A well-answered question demonstrating a good working knowledge and practical application of MDG15. More detail around the administration systems required for equipment acceptance to site and ongoing management required for a more thorough response.

## Question 6 (total 25 marks)

Average mark: 7.5/25

### Examiners Comments

A very poor understanding of functional safety, safety critical systems, safety integrity level and CAT levels. Consequently, a poor understanding of the steps to establish functional safety requirements and to monitor and maintain it.

## Question 7 (total 25 marks)

Average mark: 10.5/25

### Examiners Comments

A reasonable attempt at listing the key statutory requirements to become familiar with shortly after commencing the role as the site mechanical engineer, however, a much poorer demonstration of expectations of these requirements and how to present these findings to the Mine Operator.

## Question 8 (total 25 marks)

Average mark: 6.25/25

### Examiners Comments

The wire rope construction types question was not answered by one candidate and only reasonably well answered by the other candidate.

# Summary of oral results

Date: 10th October 2016  
Number of candidates: 1  
Number deemed competent: 0

## Questions:

There were seven (7) discussion points / questions in the oral examination. These were as follows:

- 1) interpretation of the role of a mechanical engineer at a site
- 2) specific questions around the MECP
- 3) a risk management scenario – short to long term actions
- 4) standards of installation / maintenance and rectification
- 5) incident investigation process
- 6) contractor management
- 7) disciplinary action

## More information

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## Acknowledgments

Mechanical Engineer Examination Panel

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PUB16/406