



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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Governance Branch

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Acknowledgments

Mechanical Engineer Examination Panel

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