

CANDIDATE NUMBER:	EVTNOT

(OCE1)

OPEN CUT EXAMINER OF COAL MINES OTHER THAN UNDERGROUND MINES

EXAMINATION FOR CERTIFICATE OF COMPETENCE

Legislation to be assessed:

Unless otherwise stated all references to Act and Regulations are to: Work Health and Safety Act 2011 Work Health and Safety Regulation 2017 Work Health and Safety (Mines and Petroleum Sites) Act 2013 Work Health and Safety (Mines and Petroleum Sites) Regulation 2014 Explosives Act 2003 Explosives Regulation 2013

Examinations are held in the following regions:

Tocal College

Wednesday 21 April 2021

9:20 am to 10:30 am

OCE1 – Mining Legislation

INSTRUCTIONS TO CANDIDATES

All questions are to be attempted Answers are to be written in pen in this booklet ONLY Candidates must state all assumptions in their answers Refer to the relevant legislative provisions when answering all questions:



Q #		Mark	Available mark	Marked by Initials	Summary comments to justify marks awarded (if required)
	a		15		
1	b		5		
1	с		5		
	Total		25		
	а		15		
2	b		10		
	Total		25		
	a		4		
	b		5		
	с		5		
3	d		4		
	e		2		
	f		5		
	Total		25		
	a		6		
Л	b		14		
4	с		5		
	Total		25		
PAPER	TOTAL		100		Marks checked by:

ANSWER BOOKLET

Answers are to be written in the allocated spaces within this booklet ONLY

Answers must be written in pen however, drawings may be completed in pencil

This booklet is not to be altered in any way, pages are not to be added or removed

Additional space is provided at the end of the paper in case you run out of space for an answer. Please label which question the answer relates to if you do use this

additional space.

Question 1 - Safety Management System (Total 25 marks)

The Work Health and Safety (Mines and Petroleum Sites) Regulation 2014 part 2 Division 1 Subdivision 2 Clause 14, Sub clause (1), details the required content of a safety management system.

(a) List at least 12 items of required content for a safety management system relevant to an open cut mine? **(15 marks)**

Clause 14 (1) Sub clause (2) details the requirements of the safety management system document.

(b) List the requirements of the safety management system document. (5 marks)

(c) How often must the safety management system be reviewed? (5 marks)

Question 2 - Mobile Plant Risk Management (Total 25 marks)

(a) When managing risks associated with the movement of mobile plant, what are the key matters a mine operator must have regard to? (15 marks)

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(b) Summarise the prescribed notifiable incidents that are, or may be associated with, mobile plant or vehicles in an open cut mine. (10 marks)

estion	3 - Hazard Management (Total 25 Marks)
(a) Wha	at is a Principal Hazard? (4 marks)
(b) In y	our own words, what is a Principal Hazard Management Plan? (5 marks)
	the prescribed Principal Hazard Management Plans required for an open cut mine (5 marks)

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(d) Under what circumstances are additional Principal Hazard Management Plans required? (4 marks)
(e) What action must be taken if a known Principal Hazard exists, but a documented Principal Hazard Management Plan is not in place? (2 marks)
(f) List the Principal Control Plans for an open cut mine. (5 marks)

Question 4 - Incident Management (Total 25 marks)

(a) What are the six types of incidents to be reported to the NSW Resources Regulator if they occur at an open cut mine? **(6 marks)**

(b) You are an OCE (open cut examiner) on day shift and receive a 2-way call notifying you that a maintenance fitter has completely severed his index finger while replacing a bucket tooth on an excavator in the pit. Summarise the actions you will take as an OCE to manage this incident and fulfil your legal requirements. **(14 marks)**

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(c) Where an incident is required to be preserved, under what circumstances can the site be disturbed? (5 marks)

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END OF QUESTIONS

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END OF PAPER



CANDIDATE NUMBER:	EVTNOT

(OCE2)

OPEN CUT EXAMINER OF COAL MINES OTHER THAN UNDERGROUND MINES

EXAMINATION FOR CERTIFICATE OF COMPETENCE

Legislation to be assessed:

Unless otherwise stated all references to Act and Regulations are to: Work Health and Safety Act 2011 Work Health and Safety Regulation 2017 Work Health and Safety (Mines and Petroleum Sites) Act 2013 Work Health and Safety (Mines and Petroleum Sites) Regulation 2014 Explosives Act 2003 Explosives Regulation 2013

Examinations are held in the following regions:

Tocal College

21 April 2021

11:35 am to 1:45 pm

OCE2 Practical Open Cut Operation

INSTRUCTIONS TO CANDIDATES

All questions are to be attempted Answers are to be written in pen in this booklet ONLY Candidates must state all assumptions in their answers Refer to the relevant legislative provisions when answering all questions State all assumptions



Q)#	Mark	Available mark	Marked by Initials	Summary comments to justify marks awarded (if required)
	a		10		
	b		20		
1	с		10		
	d		10		
	Total		50		
	a		15		
	b		15		
2	с		10		
	d		10		
	Total		50		
	a		20		
	b		10		
3	с		15		
	d		5		
	Total		50		
	a		10		
	b		10		
4	с		5		
	d		10		
	e		5		

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Q #		Mark	Available mark	Marked by Initials	Summary comments to justify marks awarded (if required)
	f		10		
	Total		50		
PAPER	TOTAL		200		Marks checked by:

ANSWER BOOKLET

Answers are to be written in the allocated spaces within this booklet ONLY

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additional space.

Question 1 - Mining Practice (Total 50 marks)

You have commenced your new role as an OCE (open cut examiner) at a large open cut coal mine. One of the responsibilities of the role is to supervise the capping of a large tailings dam project. The capping is being completed by small mining equipment (Caterpillar D6 size bulldozer and 40 tonne articulated haul trucks) with 2 to 4 meters of cover to tailings on the first capping lift.



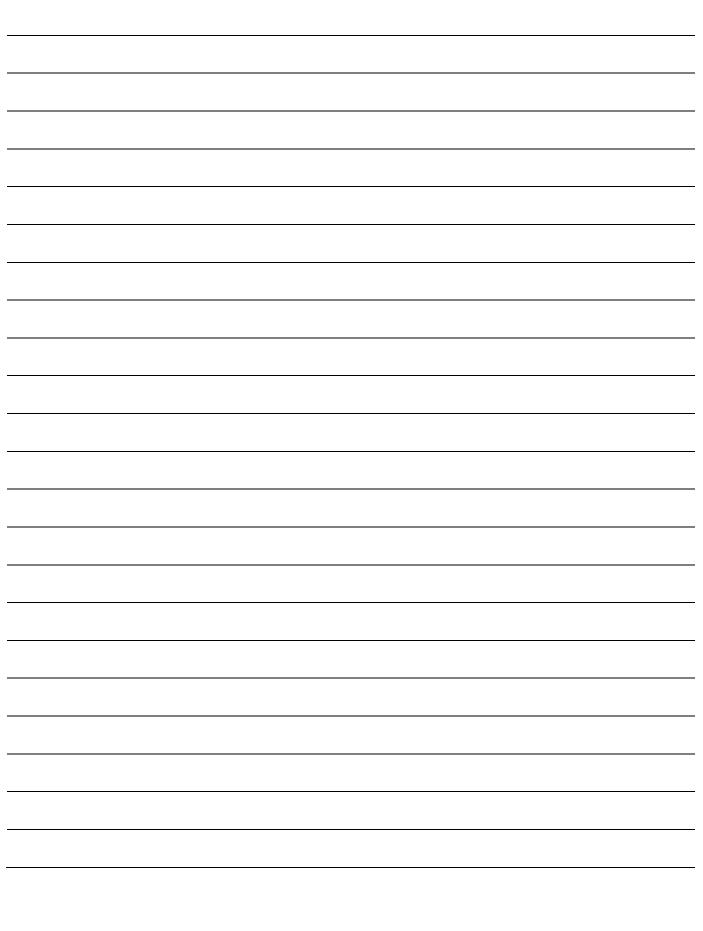
a) Before you perform any OCE duties what information would you review in regard to capping the tailings dam? **(10 marks)**

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b) You review the risk assessment for capping. List the hazards and controls that you would expect to be addressed in this risk assessment? (20 marks)

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- c) You have been the OCE on the job for five shifts and the capping project has been going to plan. You receive a call on the two-way from the dozer operator on the tailings dump who states that he has noticed some cracking back from the dump edge and is not sure what to do. What are your immediate actions? (10 marks)



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d) In your inspection and investigation of the cracking, you determine the cracking has triggered an inspection from a qualified Geotechnical Engineer as it has dropped around 30mm. Whom do you notify and what steps are taken from here? **(10 marks)**

Question 2 - Slope Stability (Total 50 marks)

You are the OCE working in a medium sized mine which uses an electric shovel, loaders and a fleet of haul trucks to mine overburden and coal.

On the pre-start inspection of your first nightshift over the weekend, the off going OCE takes you to the shovel bench where the low-wall has failed significantly. The failure has caused cracking and slumping of the shovel bench and overburden material to fall onto the floor below where a coal loader and trucks had been hauling to the coal hoppers. Both the shovel and coaling operations have stopped.

The required notifications have been made. The Resource Regulator has released the incident scene to allow the site to conduct an internal investigation.

a) What action would you take to ensure the incident scene is preserved to allow an internal investigation to commence? **(15 marks)**

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b)	How would you manage the safety of the oncoming nightshift workers? (15 marks)

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c)	What actions would you take to resume safe mining operations in both the overburden and coaling areas? (10 marks)

d)	List the controls you would implement to assist in monitoring Geotechnical conditions
	to prevent a similar type of incident over the weekend and until the internal incident
	investigation has been completed. (10 marks)

Question 3 - Incident Management (Total 50 marks)

You are the OCE working weekend dayshift at a small open cut operation. In the afternoon you receive a call from a 789 haul truck operator stating they lost steering whilst descending an active haul ramp and have collided with a windrow. On the other side of the windrow are two pumpers tending to a pump in preparation for a storm that is approaching.

a) What are your immediate actions as the OCE in response to this call? (20 marks)

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 b) Is this incident notifiable? If so, specify the clause and description, notification requirements and next steps. (10 marks)

After you have responded to the initial incident, it begins to rain heavily. The pumpers notify you that a significant amount of fuel from the damaged haul truck has spilled down the ramp and into a sump that is beginning to overflow into a local creek.

c) Outline the steps you would take to control the situation and prevent further contamination within the creek. **(15 marks)**

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Question 4 - Explosives and Shotfiring (Total 50 marks)

As an OCE at a small open cut mine, your duties include the supervision of a small fleet of excavators, trucks and ancillary equipment as well as drill and blast operations.

At 4:30pm, the Blast Crew completed loading and tying up an electronic shot. Just prior to firing, you receive a call from the shotfirer reporting that the post loading IE stocktake has identified 2 boosters and 2 electronic detonators are missing and unaccounted for.

a) What are the five priority actions you would take after receiving this information from the shot firer? **(10 marks)**

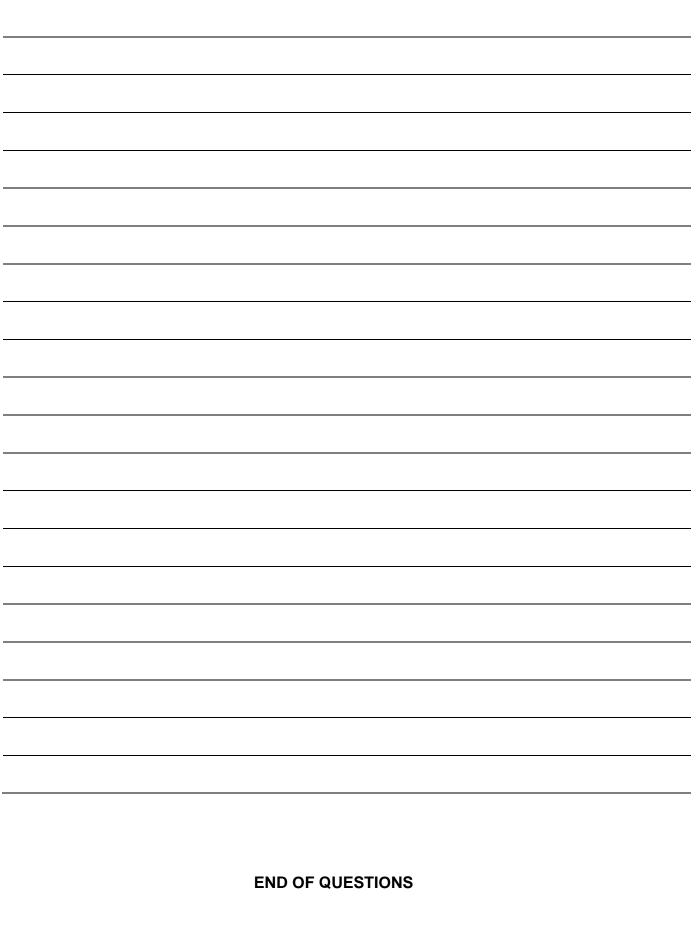
b) Is this incident notifiable? If so, specify the clause and description, who is to be notified, how and when? **(10 marks)**

c) The shot is required to allow continuity of production. Would you fire the shot? Provide your reasoning. (5 marks) (d) Your Manager has asked you to commence gathering information as part of the investigation into the incident. List the information you would require to be gathered. (10 marks)		
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e) Who	would you recom	mend be involv	ved in the inve	estigation proc	ess? (5 marks)
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f) Summarise at least four key actions you would recommend to prevent reoccurrence of this incident. **(10 marks)**



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END OF PAPER