



CANDIDATE NUMBER: _____/_____

EXAMINATION: **DEPUTY**

EXAM PAPER: **DEP– Coal Mining Practice and Legislation**

DATE: **Friday 5 September 2014**

EXAMINATION BOOKLET

Q #	PEO	AO	MARKS	EXAMINERS Signature	Marking Review <small>(if result 55-59)</small>	Formal Review
1			/20			
2			/20			
3			/20			
4			/20			
5			/20			
TOTAL			/100			



**Trade &
Investment**
Mine Safety

(DEP)

NSW Coal Competence Board

EXAMINATION FOR CERTIFICATE OF COMPETENCE AS DEPUTY

(Coal Mine Health & Safety Act 2002)

NORTHERN REGION
SOUTHERN REGION
WESTERN REGION

Friday 5 September 2014

10am to 12.30pm

Coal Mining Practice and Legislation

INSTRUCTION TO CANDIDATES

All five (5) questions are to be attempted.

All questions are of equal value - **20 marks each**.

10 minutes reading time is allowed prior to the start of the examination.

DEP - Coal Mining Practice and Legislation
September 2014

Question 2 (total 20 marks)

a) Describe how a chemical oxygen self-rescuer works. (5 marks)

	/5
--	----

b) You are a Deputy leading several men out of a mine during an emergency. The situation is as follows:


- There is an irrespirable atmosphere.
- You are wearing chemical oxygen self-rescuers.
- You are between caches.
- You are on foot.
- You have had the self-rescuers on for 15 minutes.

It comes to your attention that the breathing bags on some of the self-rescuers are deflating and the wearers appear to be struggling for air. What actions would you take? (5 marks)

	/5
--	----

**DEP - Coal Mining Practice and Legislation
September 2014**

- d) With the aid of a diagram describe the major components of an auxiliary fan including the degassing box, stone trap, variable inlet vanes and motor. (5 marks)



/5

DEP - Coal Mining Practice and Legislation
September 2014

Question 4 (total 20 marks)

- a) Describe, with the aid of diagrams, the setup of a gas drainage drill rig in a stub off the travelling road of a 2 heading development. (12 marks)

This is to include:

- Ventilation
- Environmental monitoring
- Gas control measures
- Water control measures

/PTO

**DEP - Coal Mining Practice and Legislation
September 2014**

Question 4 part a) continued


/12

DEP - Coal Mining Practice and Legislation
September 2014

Question 5 (total 20 marks)

- a) Longwalls often use brattice at the tail gate to control the potential for methane to flow over the tail gate drive.

Describe, with the aid of diagrams, how this brattice is set up to achieve the required controls. (5 marks)



/5

