

Section 8.6 ASSESSMENT - CORE SAMPLING

RESULT				
COMPETENT COACHING		ASSESSMENT CRITERIA		
		2. Why is it important to ensure the workplace is tidy and organised before commencing work?		
		- to remove hazards and minimise possible delays whilst coring and recording the desorption		
		Explain use of the mentor and identify checks to be carried out		
		- demonstrate percentage checks (percentage to be noted) Note:		
-		O2 19% low alarm 23% high alarm CH4 alarm at 1% CO alarm at 50ppm		
		- demonstrate operation of CH4 and O2 functions		
		ensure mentor is in correct position - 5m from face		
		2. Why is it important to ensure the workplace is tidy and organised before commencing work? to remove hazards and minimise possible delays whilst coring and recording the desorption 3. Explain use of the mentor and identify checks to be carried out demonstrate percentage checks (percentage to be noted) Note: O2 19% low alarm 23% high alarm CH4 alarm at 1% CO alarm at 50ppm demonstrate operation of CH4 and O2 functions ensure mentor is in correct position - 5m from face 4. What details would you expect from the drilling supervisor to allow you to correctly take a coal sample? location of drill rig location of core barrel, desorber and bombs depth samples to be taken relative to the face or a centreline azimuth 5. Explain how to determine that the core barrel is full and stopped cutting the drill string will stop and the rotation will increase 6. What is the maximum time allowed to elapse between when the drill is stopped before coring and when the sample is connected to the desorber? one (1) hour		
102 1	ent fixors	- location of drill rig		
	e-menny	- location of core barrel, desorber and bombs		
		- depth samples to be taken relative to the face or a centreline		
		- azimuth		
		5. Explain how to determine that the core barrel is full and stopped cutting		
		- the drill string will stop and the rotation will increase		
		6. What is the maximum time allowed to elapse between when the drill is stopped before coring and when the sample is connected to the desorber?		
		one (1) hour		

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nu WA			ASSESSMENT CRITERIA
		7.	Where is the depth of the sample measured from and how is this recorded on the sheet?
		-	face (last strap) or a centre line, with the aid of a diagram
		8.	Identify the form used to record the drilling record and desorption process
		-	Standard Form - QS-SGM-SF001
		A.	PRE-OPERATION CHECKS
		9.	Check the drill rig is setup at the correct location
		-	azimuth as prescribed in the engineer's details
		10.	Determine the depth of the hole and the number of rods required to progress the hole to the required depth to commence coring (CRITICAL)
	1-1	11.	Check core barrel is serviceable
		-	core breaker free and pushed back
	100	-	core barrel bit is sharp and not damaged
	2		check components are seated and screwed together
			check for good water flow
		12.	Set up desorber
		-	check that equipment is serviceable
			fill cylinder with water and cover with beaker and invert. Fill beaker with water
			make sure the end of desorption hose (inside inverted cylinder) is level with the outside water level in beaker (CRITICAL)
		В	COMMENCE DRILLING
		13. 1	Drill hole to prescribed details record drilling characteristics relevant to each rod



ASSESSMENT - CORE SAMPLING

RESULT COMPETENT COACHING - HEQUINED		ASSESSMENT CRITERIA		
		-	check that the drill string is stopped at the correct position relative to face or centreline	
			record time (using record sheet QS-SGM-SF001, using 24hour time (hours, minutes and seconds)	
	133	15.	Withdraw drill string	
			check the end of the drill string is blanked off to prevent ingress of dirt	
			check that the observer is used where necessary to ensure dri string is safely withdrawn	
- 0 × 1/25 S	and all the	16.	Couple core barrel to drill string	
a surry	and report	-	push rods back to the face of the hole	
			couple water supply to rods and allow water to flush to drill face $% \left\{ 1,2,\ldots ,n\right\}$	
		17.	Start coring	
			note time on appropriate form when rotation is applied and coring is commenced (CRITICAL) i.e. time core barrel begins cutting coal	
		18.	Stop coring	
		-	check progress of core barrel in the coal and note the time when the core barrel stopped cutting coal (CRITICAL)	
		19.	Withdraw drill string	
		20.	Uncouple core barrel	
		-	disassemble core barrel	
		-	transfer coal sample to 'bomb'	
	Ale Company	of your	seal bomb to ensure there are no leaks - valve to remain open	

ASSESSMENT CRITERIA

21. Connect sample to desorber and using the form (QS-SGM-SF001)

- note time sample is connected to desorber along side level in the graduate cylinder
- observe the rate the gas is desorbed from the sample by accurately noting the change in volume and the times of the
- record time at every 20ml level or change in volume
- record a minimum of six (6) changed readings if gassy, then periodical readings
- continue desorption for as long as possible at least twenty (20) minutes. Record final reading
- 'bomb closed' and time, disconnect the tube from bomb
- no desorption after fifteen (15) minutes, turn off and check
- seal cylinders at the end of the observation period by turning off the valve on the bombs and secure to transport

22. Complete report form - QS-SGM-SF001

- illustrate coring location
- detail coring location, relative to a cut-through centre line
- date and sign

23. Complete report form - QS-AGM-SF005

- end of shift coring details
- 24. Return core sample and data to supervisor
- 25. Clean and oil disassembled core barrel, paying particular attention to INNER TUBE and CORE BREAKER

26. Place core barrel on rig in a safe and secure place

ensure air, water and power is isolated







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RESULT						
MPETEME	COACHING REGURED	ASSESSMENT CRITERIA				
		27. Operator maintenance and repair				
		to be advised				
	1 100	28. Operator reporting				
		 report details to supervisor, on-coming operator and/or Control record results in Shift Equipment Report Book 				
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ASSESSMENT - CORE SAMPLING



SAFETY

All injuries can be prevented





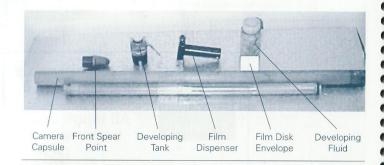
 Management is accountable for safety

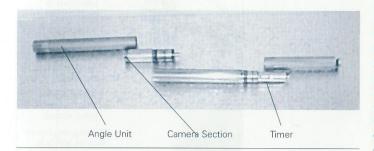
> • All operating exposures can be safeguarded

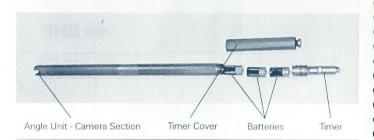
• Training employees to work safely is essential











ASSESSMENT - SINGLE - SHOT SURVEYING

EMPLOYEE ASSESSMENT ORAL AND PRACTICAL SKILLS

"OPERATE SINGLE - SHOT SURVEY TOOL" ASSESSMENT GUIDE:

Conduct Single Shot Survey Tool Operation.

PERFORMANCE: Conduct Single Shot Survey Tool Operation

CONDITION: GIVEN: • Correct Equipment

• Personal Protective Equipment. (P.P.E.)

• Engineer's Job Instruction

Mentor

STANDARD:

Appin Colliery

In accordance with Appin Colliery Standard Operating Procedures, Coal Mines Regulation Act, Occupational Health and Safety Procedures, and without injury to personnel or without damage to equipment.

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OMPETENT	COACHING REQUIRED	ASSESSMENT CRITERIA	
		ORAL (QUESTIONS)	
	. Levren	List the equipment to be present before taking camera unit underground	
		- single shot survey instrument	
		- film loader	
		- film developer case	
	131	- film developer fluid	
		- disc envelopes	



ASSESSMENT - SINGLE - SHOT SURVEYING

RESULT COACHING REQUIRED	ASSESSMENT CRITERIA		
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	 Explain use of the mentor and identify checks to be carried out 		
	- demonstrate percentage checks (percentage to be noted)		
	Note: O2 19% low alarm 23% high alarm		
	CH4 alarm at 1%		
- 1	CO alarm at 50ppm		
	demonstrate operation of CH4 and O2 functions		
	- ensure mentor is in correct position - 5m from face		
	Explain the procedure for checking battery condition and the camera unit prior to taking underground		
	 unscrew unit between angle unit and camera section to expose the bulbs 		
	- set switches on electronic timer to 'O' and press start button		
1.4	- bulbs should light for approx. 20 seconds		
	 to set timer on mechanical timer, turn knob slowly from 0 to 30 mins. Bulbs will light up when timer passes between 15 - 20 mins. This indicates battery condition and triggers timer mechanism. Turn knob to desired time period. Allow three (3) mins. for developling time 		
	if lights dull, contacts may need cleaning with steel wool to ensure maximum conductivity		
	4. Why is it important to use clean hands?		
	- to ensure electrical contacts are kept clean (CRITICAL)		
	PRACTICAL (DEMONSTRATION)		
	5. Identify where the batteries are changed		
	- surface only (Mines Department Approval) CRITICAL		
	6. Prepare camera and conduit		
	- determine number of conduit lengths necessary to position camera		

ASSESSMENT - SINGLE - SHOT SURVEYING



Surveying Conduit for pushing Camera up the hole to be surveyed



Section 8.7 ASSESSMENT - SINGLE - SHOT SURVEYING

COACHING REQUIRED		ASSESSMENT CRITERIA couple conduit into one length
		couple conduit into one length
	-	
		load film into loader
	-	position film loader onto camera ensuring no light ingress
	-	open slide and transfer film to camera
		assemble survey tool and set timer (timer delay dependent on length of hole and environmental conditions)
	7.	Position camera to take shot
	-	place camera in camera capsule with the camera angle unit facing towards the end of the hole (CRITICAL)
	-	position capsule in the hole at the desired position
	-	the standard practice for holes being surveyed at the standpipe must be taken 4m in from the mouth of the hole
	8.	Allow the period to elapse
	-	two (2) minutes for standpipe orientation (4m in from hole collar)
	9.	Remove camera from hole and develop film
	-	remove camera from capsule or torpedo
	-	set up developing case with developing solution
	-	position camera onto developing case to ensure no light ingress
	-	transfer film from camera to developing case
	-	no light permitted (CRITICAL)
	-	allow developing time - one (1) minute minimum
	-	remove disk from developing case
	-	over exposed - disk all black
	-	under exposed - disk is clear (timer mal-function or flat batteries)
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		8.



ASSESSMENT - SINGLE - SHOT SURVEYING

REBULT		ASSESSMENT CRITERIA			
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		10. Record film disk with survey position in disk envelope			
		identify hole number			
		dentify position in bore hole			
		record date			
		sign off envelope			
		11. Operator reporting			
		report details to supervisor, on-coming operator and/or Control			
		record results in Shift Equipment Report Book			
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