





#### **EMPLOYEE ASSESSMENT ORAL AND PRACTICAL SKILLS**

CONDUCT DRILL RIG OFFSIDER DUTIES ASSESSMENT GUIDE:

REFERENCE N°:		
ELEMENT OF CO	MPETENCE:	Conduct Drill Rig Offsider Duties
WORKPLACE AS	SESSOR:	
WORKPLACE OI	PERATOR:	
PERFORMANCE	: Conduct Dril	l Rig Offsider Duties
CONDITION:	GIVEN: • Dr	ill Rig & Rods
	• Pe	rsonal Protective Equipment (P.P.E)
	• Co	orrect Tools
	• Me	entor
	• Ex	perienced Operator
STANDARD:	Procedures, Co Health & Safet	with Appin Colliery Standard Operating oal Mines Regulations Act, Occupational y Procedures, & without injury to vithout damage to equipment.

ASSESSMENT CRITERIA - OPERATION OF MACHINE		RESULT	
		COACHING REQUIRED	COMPETENT
		199	1000
	ORAL (QUESTIONS)		
	1. Explain what P.P.E. you would use?		-
	- safety glasses		
	- gloves		
	- ear protection		
	- ear protection		



#### ASSESSMENT - CONDUCT DRILL RIG OFFSIDER DUITES

RESULT COACHAIG PROJUNED		ASSESSMENT CRITERIA - OPERATION OF MACHINE	
	NEGGINEO	2.	Explain how you would ascertain if the area has been inspected?
			check Deputies Report Book and Deputies Noticeboard
		-	ask Deputy
			ask Undermanager / Control
			ask onacmanager position
		3.	Would you begin drilling operations without a Methane Detector?
		2	no
		4.	Explain use of mentor and identify checks to be carried out
		-	demonstrate percentage checks
		-	percentage to be noted
	1.1 %		O2 19% low alarm 23% high alarm
			CH4 1%
			CO alarm at 50ppm
		-	demonstrate operation of CH4 and O2 functions
		-	ensure mentor is in correct position - 5m from face
		5.	Explain safety precautions you will follow when offsiding on a drill rig?
		-	communicate with operator (CRITICAL)
	1 1	-	ensure area is safe and clear of debris (CRITICAL)
		-	ensure correct drill rods are conveniently located
		-	check that all necessary tools are available
	3 (1)		check rods are not blocked
			ensure when machine is in operation that employees remain at a minimal distance of 1.5 metres from behind the machine

Doe Nº. OS-ATC-EA012

Methane Drilling Operator Handbook - BHP







# ASSESSMENT - CONDUCT DRILL RIG OFFSIDER DUITES

RESULT  COMPETENT COACHING REQUIRED			ASSESSMENT CRITERIA - OPERATION OF MACHINE	
Aur	TEGORIO .	6.	Identify if you would fit a drill rod whilst the drill string is moving?	
			No (CRITICAL)	
		7.	Explain what you would do prior to fitting or removing rods or drill bits from the drill rig	
			check with operator and await his instructions (CRITICAL)	
		8.	Explain why good housekeeping at the work site is essential	
-			to prevent any accidents or injuries i.e. slip, trip fall	
		9.	Explain why you would keep clear of the back of the drill bed	
	The Ag		the drill string could travel back (sometimes at least 1.5m) $$	
		PRA	CTICAL (DEMONSTRATION)	
- 411	A Salar	PLA	N AND PREPARE	
	mail and	10.	Demonstrate the fitting of P.P.E.	
		-	as listed in Point 1	
		11.	Demonstrate fitting of six (6) rods to the drill string	
			grease on thread	
		-	check with operator that everything is clear (CRITICAL)	
			enter rod into drill string	
	100 200	-	fit and tighten water swivel (where applicable)	
		-	stand clear and advise operator (CRITICAL)	



### ASSESSMENT - CONDUCT DRILL RIG OFFSIDER DUITES

RESULT		ASSESSMENT CRITERIA CREDATION OF MACHINE	
COMPETER	DEGUMED.		ASSESSMENT CRITERIA - OPERATION OF MACHINE
		12.	Demonstrate removal of six (6) rods to the drill string
		-	check with operator when rod is undone and ready to be removed (CRITICAL)
ayari I		-	remove rod
		-	stand clear and advise operator (CRITICAL)
		-	stack rods neatly
		13.	Operator maintenance and repair
	11-173	-	to be advised
	17517		
	10	14.	Operator reporting
			immediately report intersection of any structures / anomolies to Supervisor, Undermanager and/or Control
			report details to Supervisor, on-coming operator and/or Control
		-	record Drill Logs in Drillingt Report Book
		-	record any downtime encountered
	- Hillian		







# ASSESSMENT - CH4 STAND PIPE INSTALLATION



#### **EMPLOYEE ASSESSMENT** ORAL AND PRACTICAL SKILLS

CONDUCT CH4 STAND PIPE INSTALLATION ASSESSMENT GUIDE:

ELEMENT OF CO	OMPETENCE:	Conduct CH4 Stand Pipe Installation
WORKPLACE A	SSESSOR:	Lings hope to be a second
WORKPLACE O	PERATOR:	
PERFORMANCE CONDITION:	GIVEN: • Pe	gle Shot Survey Tool Operation Prosonal Protective Equipment. (P.P.E.) Fill rig and correct materials Porrectly inspected location Fientor
STANDARD:	Procedures, C Health and Sa	with Appin Colliery Standard Operating oal Mines Regulation Act, Occupational fety Procedures, and without injury to without damage to equipment.

COMPETENT	COACHING REQUIRED	ASSESSMENT CRITERIA	
		ORAL (QUESTIONS)  1. What P.P.E. would be required when installing a stand pipe?  - safety glasses (CRITICAL)  - gloves  - hearing protection  - dust mask	



#### ASSESSMENT - CH4 STAND PIPE INSTALLATION

PRESULT		ACCECOMENT ODITEDIA	
		ASSESSMENT CRITERIA	
		2. Explain job checks and safety procedures prior to	
		commencing job	
		understand job required, job location and hole to be drilled	
		<ul> <li>ensure job site has been inspected - i.e. complies with CMRA</li> </ul>	
		read previous shifts drilling report	
		check for personal danger tags or out of service tags	
		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	
	AT THE	PRACTICAL (DEMONSTRATION)	
		4. Check machine is operational	
		- no oil leaks	
		- no water leaks	
		- no air leaks	
		- hoses are fitted with safety clips	
	A SOLD REAL	5. Check roof and sides and tidiness of work area, i.e.	
	A 5.0 W TV	- scale down ribs and clean up	
		- roll or tie up all unused hoses	
		- remove and stack all unnecessary materials and tools	
		6. Check area with AMD and set same	
		- AMD set up with 10m of rig in upper third of roadway	

Dec Nº. QS-ATC-EA008









# Section 8.1 ASSESSMENT - CH4 STAND PIPE INSTALLATION

RESULT		ACCECCIAENT CRITERIA	
COMPETENT	COACHING	ASSESSMENT CRITERIA	
		<ol> <li>Check all necessary machinery, tolls and materials are on job site</li> </ol>	
		- stand pipe	
		- brattice	
		- reamer	
-		electrical tape	
	20-20-0	- rib borer	
	1,427	- yachting knife	
		- mixing wand	
	1965	- grout pump	
		- mixing drum	
- 20	711	- stuffing box	
100	o Chain di	min two (2) lengths of conduit	
	Populiz.	- bull hoses	
3		- min three (3) bags grout	
		- rock oil	
		- min one (1) bag plaster	
		- rod grease	
		- scrimming material	
		- ties	
		- wedges	
		- lump hammer	
		- L5A Oil	
		8. Explain the different types of stand pipes used and	
		why they are used in different areas, e.g. copper standpipe?	
		- copper, plastic, and fibreglass stand pipes are used when a	
		hole is in such a position that it will need to be removed as part of the mining cycle. Steel standpipes are used when the hole will stay in place	



#### ASSESSMENT - CH4 STAND PIPE INSTALLATION

RESULT		
COMPETENT	EGACHING REQUIRED	ASSESSMENT CRITERIA
	1 44	9. Demonstrate how you would set up the machine
		as instructed by Supervisor or Deputy
	la land	with due regard to roof, sides and job required
		- to survey tags
		line drill rig up to suit hole number required. Use site strings and drill rod located in drill rig
		- pay particular attention to dip of hole
		- use level board or protractor
		Note: This is particularly important when grouting
		- 'up hole' fill in short conduit
		'down hole' fill in long conduit
	14 19 219	10. Fit safety glasses prior to job commencement, drill and ream out area for stand pipe to required depth
		- determine depth of hole to be drilled to accommodate stand pipe
		<ul> <li>observe that hole is drilled with appropriate feed rate, i.e. hole does not bend off a straight line due to excessive feed rate</li> </ul>
		- observe that drill rods and bit do not sag at start of hole
		- flush hole clean with water then air
		11. Swing grippers out of the way and swing drill head out of the way
	Are beginning	FORM SEAM HOLES
		12. Cover inbye end of stand pipe with substantial material and secure with tape
		<ol> <li>Secure conduit breathing and grouting tubes to stand pipe, using electrical tape (mark short conduit - see 'note' above)</li> </ol>
		14. Insert stand pipe into hole (200-300mm of stand pipe should be protruding from mouth of hole)

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#### ASSESSMENT - CH4 STAND PIPE INSTALLATION

RESULT  COACHING REQUIRED		ASSESSMENT CRITERIA	
		15. Push drill rod into stand pipe	
		16. Wedge and pack stand pipe central to drill rods	
		17. Mix plaster and use as a collar to seal hole	
		do not make plaster too wet	
		- use scrimming	
		- wait ten to fifteen (10 - 15) minutes for collar to set	
		<ol> <li>Using appropriate P.P.E., mix grout and water to required consistency using rib borer mixing wand and mixing drum</li> </ol>	
- 1		one (1) bag of grout per 10 litres of water	
	il trends bei	<ul> <li>check grout pump in water prior to mixing grout to ensure that it is operating correctly</li> </ul>	
	ean kadi	<ol> <li>Using a grout pump, pump into grouting tube until it flows out of the breathing tube. Stop, bend and seal both conduits using electrical tape.</li> </ol>	
		- use short conduit in up holes for pumping grout	
		- use long conduit on down holes	
Lucia		20. In the case of cross measure holes	
	* 1	<ul> <li>hole to be flushed clean using air (safety glasses to be worn) (CRITICAL)</li> </ul>	
		<ul> <li>after mixing grout, it can be poured down the hole where possible otherwise use grout pump until the hole is filled</li> </ul>	
		<ul> <li>make a dam around mouth of hole and add more grout to mixture to thicken it up and use this mixture to finish off the collar for the hole</li> </ul>	
	uline o	21. Clean mixing drum with water	



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## ASSESSMENT - CH4 STAND PIPE INSTALLATION

RESULT SOAFINIO PERSONNEL			ASSESSMENT CRITERIA
	PERSONNESS	22.	Clean grout pump using clean water and a small amount of L5A oil until pump is thoroughly cleaned
		23.	Allow sufficient time for grout to set (approx. 60 minutes)
		24.	Complete final visual check
		-	clean up area
14.00		-	stack unused grout and plaster out of way
		-	stack rib borer, mixing wand and mixing drum together out of the way and in a safe place
		-	prepare stuffing box and bull hose prior to recommencing drilling operations
		-	ensure air, water and power is isolated
149		25.	Operator reporting
		-	report details to supervisor, on-coming operator and/or Control
		-	record results in Shift Equipment Report Book

Doc Nº. QS-ATC-EA008





Rotary Drilling Operation





#### **EMPLOYEE ASSESSMENT ORAL AND PRACTICAL SKILLS**

CONDUCT ROTATIONAL DRILLING **OPERATIONS ASSESSMENT GUIDE:** 

REFERENCE N°:	
ELEMENT OF COMPETENCE:	Conduct Rotational Drilling Operations
WORKPLACE ASSESSOR:	
WORKPLACE OPERATOR:	

PERFORMANCE: Conduct Rotational Drilling Operations

CONDITION: GIVEN: • Proram Drill Rig

Mentor

• Personal Protective Equipment (P.P.E)

Correct Tools

• Correct Inspected Location

STANDARD:

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

RESULT  COMPETENT COACHING REQUIRED		ASSESSMENT CRITERIA - OPERATION OF MACHINE	
	- mad 07 196 M	ORAL (QUESTIONS)	
		1. Explain what P.P.E. you would use? - safety glasses - gloves - ear protection	







RESULT		ASSESSMENT CRITERIA - OPERATION OF MACHINE
COMPETENT	GOACHING REQUIRED	Added Sivery Office And Control of Miles and
		2. Explain the safety checks you would carry out
	IN THE	check for 'Out of Service' tags
	- 1	check for damaged equipment
		check for loose or missing items
		use correct P.P.E
		- check mentor present and operational
		- check roof and sides
	12 7 7 7 7	
		3. Explain purpose of report book
		to record drill progress and record any geological anomali
		whilst drilling
		4. Identify how you would obtain details required to
		carry out the job
		<ul> <li>read notes prepared by drilling engineer</li> </ul>
		- ask supervisor
		- ask drilling engineer
		- read Report Book
		5. Expalin use of mentor and identify checks to be carried out
		- demonstrate percentage checks
		- percentage to be noted:
		O2 9% 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
		6. Communicate with supervisor and/or off-going
	- 19	operator
		<ul> <li>Talk to operator's about current drilling status, hazards, drilling conditions and other related matters</li> </ul>



Doc Nº. QS-ATC-EA001

#### ASSESSMENT - ROTATIONAL DRILLING OPERATIONS PRO-RAM

REBULT		ASSESSMENT CRITERIA - PLAN AND PREPARE	
	DEGENED.		
		7.	Confirm statutory inspections have been completed by a mining official
			Read Deputy's report at Deputy Station or receive verbal confirmation from Deputy, if present at site
		*	on remote sites, check deputies board and/or confirm with Control
		8.	Inspect area and mining environment for hazards
			check roof and sides for security
		-	check for accumulations of gases using a mentor
			position mentor correctly (upper third roadway, 10m return side of hole)
	1404	-	remedy any defects if possible
	and the second	9.	Conduct site inspection for adequate supplies and equipment
			mark off supplies and equipment check list
		-	report deficiencies to supervisor
		10.	Carry out pre-start checks
		-	check for tags
		-	'Personal Danger' tags
	1 1 1		'Out of Service' tags
		-	check for damaged equipment
	149	-	check for loose and/or missing items
	14	-	check for excessive coal build up
	-	-	check position of machine is secure
		-	check roof jacks are hard in roof
			check suction is in place and working correctly
			check for water in line and drain if required
		-	check levers and controls are off or in neutral
			check oil level is adequate







RESULT		ASSESSMENT CRITERIA - OPERATE	
COMPETENT	AEQUINED		
	100	- check turtle	
		check air supply and ensure safety clips are in place	
		check safety switch is reset (if fitted)	
		safety switch will close when air is turned off	
		check wast water pump is operational	
		- remedy any defects if possible, or report to supervisor	
		11. Check drilling report book	
	To this	<ul> <li>check previous shift drilling report for the outcomes and current status of the drilling operation</li> </ul>	
		OPERATION	
		12. Start up procedure	
		- check air and water valves on machine are OFF	
		<ul> <li>check main supply air and water hoses for damage back to main valves</li> </ul>	
		- check all levers are in 'neutral' position	
		- make sure hoses are tied up and area is clean	
		<ul> <li>open main air and water valves slowly to 'fully open' position</li> </ul>	
		- open air valve at machine controls	
		the second beautiful and the second s	
		13. Demonstrate operational requirements	
		- check P.P.E. is in use	
		- safety glasses	
		- gloves	
		- ear protection	
		- start drilling	
		- check water turned on and wait until flushing commences	
		- start forward rotation	
	3.0	- check for correct feed rate	
		- start feed	



#### ASSESSMENT - ROTATIONAL DRILLING OPERATIONS PRO-RAM

REBULT			
COMPETENT	ODADIONO REGUNEO	ASSESSMENT CRITERIA - OPERATE	
		check rods do not bog whilst drilling	
		- drill to rod length	
		stop drilling	
		- stop feed	
	Maria 1	stop rotation	
		- turn off water	
		<ul> <li>record drilling characteristics on each rod in book provided</li> </ul>	
		- operate grippers to hold rod at rod joint	
		- reverse rotation to uncouple water swivel rod	
		- pull chuck back full length of travel	
		- install new rod	
		<ul> <li>place rod between grippers and chuck &amp; screw to engage rods</li> </ul>	
		<ul> <li>ensure off-sider removes hands (CRITICAL)</li> </ul>	
		<ul> <li>rotate in forward direction slowly until rod is tightened</li> </ul>	
		- repeat cycle from 'start drilling'	
		14. Report	
		- at the end of shift	
		fill out drilling log with complete details	
	11100000	<ul> <li>convey shift outcomes to oncoming shift</li> </ul>	
		<ul> <li>hand in drilling report to a supervisor or Gas Drainage Office</li> </ul>	
		MAINTENANCE AND REPAIR	
		Note: All maintenance and repair will require the same planning and preparation PLUS operator reporting (As shown below in Sections 15 & 16)	
		15. Plan and prepare	
		- confirm that it is safe to enter district	
		<ul> <li>check roof and sides for safety</li> </ul>	





A P		
	Section	8

RES	COACHING REQUIRED		ASSESSMENT CRITERIA - MAINTENANCE AND REPAIR
	-	-	check the machine has sufficient working room and is cleaned adequately to allow work to progress safely
		2	withdraw the drill rods from the front grippers
		2	isolate air supply to machine (CRITICAL)
		2	attach personal danger tag to isolating valve (CRITICAL)
			de-pressurise the system (CRITICAL)
		16.	Report
		-	remove danger tags (CRITICAL)
	7- 56	-	test operation of component
			affix 'out of service' tag to unit and arrange transport to surface, notify supervisor of repair by recording in drilling report
		A. 17.	ROD HOLDER REPLACEMENT Carry out replacement
			crack the bleed screws on top of the rod holder to release the oil pressure in the rod holder
		-	remove hose from the intensifier to the rod holder
		i i	remove the two (2) retaining pins which attach the rod holder to the machine
			position the new rod holder to machine and locate retaining pins
			reconnect delivery hose
		18.	Demonstrate recharging rod holder
			attach charge gun to intensifier
		-	pump handle
		-	observe indicator pin move until it is flush with the housing $\ensuremath{OR}$
		-	turn on air supply to machine
		-	turn recharging valve on



RESULT		ASSESSMENT CRITERIA - MAINTENANCE AND REPAIR		
IOMER 1897	REQUIRED			
			observe indicator pin move until it is flush with the housing	
			turn recharging valve off	
		19.	Demonstrate bleeding of rod holder	
		*	crack bleed screws to release pressure	
			observe hydraulic fluid being released with entrapped air bubbles and allow flow to continue until all air bubbles are gone	
		-	tighten screws - hand tighten only, i.e. no leakage	
		B.	CHUCK REPLACEMENT	
		20.	Carry out replacement	
	- 4	-	remove the 10mm quick coupler hose from the commutator	
		-	remove the twelve (12) off M8* 20mm unbrako bolts from behind the chuck (use 8mm allen key)	
	-	-	remove the chuck unit	
		-	inspect the bearing cap for wear or damage	
	- 1000	-	inspect both pinion gears on the motors for wear or damage	
	Section 1	-	install the new chuck unit	
		-	check that the main ring gear meshes with the two (2) pinion gears by rotating the chuck backwards and forwards	
		-	bolt the chuck into position with the twelve (12) off M8*20mm unbrako bolts	
	revalu	-	reattach the 10mm hose to the chuck	
		C.	ADJUST FEED CABLE	
		21.	Carry out maintenance	
			check tension of the feed rope by lifting the feed rope mid- way between the rotation unit and the rear of the machine. When the rope is pulled up and released it should spring back - if not, adjust	
		-	$\ensuremath{undo}$ the banjo bolt nuts and swing the rotation unit to the side	
		fire		

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RESULT  COMPETENT GOACHING REQUIRED		ASSESSMENT CRITERIA - MAINTENANCE AND REPAIR		
		-	turn the 8mm allen key to adjust the feed tensioning bolt	
		-	check that sufficient tension can be obtained, if not then the rope will have to be changed	
		D.	ROTATION UNIT	
		22.	Carry out replacement	
			remove rotation hose manifold from top of unit by unclipping the cover centre clips	
			remove chuck inlet hose quick coupler	
		-	loosen the left hand side retaining nuts	
		-	remove the right hand side retaining nuts from the banjo bolts	
	120		lift the rotation unit from the feed bed plate	
	min this		install new rotation unit using the reverse of the above procedure	
		E.	FEED TUBE UNIT	
		23.	Carry out replacement	
	A consultation	-	remove rotation unit as per standard job instruction	
	1	-	remove rod holder as per standard job instruction	
	5 500 10	•	remove the intensifier quick coupler hose	
			remove front stinger clamp from the intensifier housing	
			unclip the two (2) manifold clips from the centre of the feed bed	
		-	unclip the two (2) large retaining feed bed clamps	
	*	-	lift the feed bed from the mounting point	
		- 6	install new feed bed, reversing the above procedure	
	The state of	F.	FRONT STRINGER CLAMP	
		24.	Carry out replacement	
		-	open the stringer clamp using the over-centre clamp	
		2	remove the two (2) 12mm bolts holding the clamp to the intensifier housing	
		-	replace the 12mm bolts and tighten	



### WHAT WE BELIEVE AT OUR COLLIERY

# SAFETY

## All injuries can be prevented

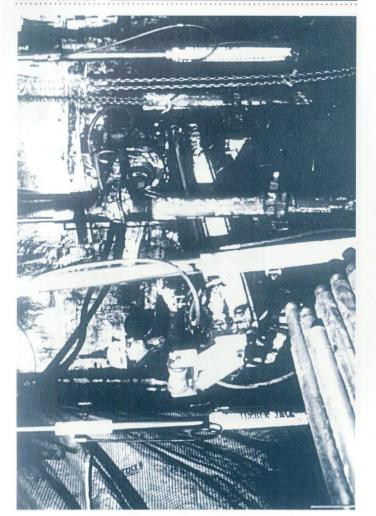


- Working safely is a condition of employment
  - Employee involvement is essential
- Management is accountable for safety
- All operating exposures can be safeguarded
- Training employees to work safely is essential











ASSESSMENT - HYDRAULIC DRILL RIG OPERATIONS (KEMPE)



#### **EMPLOYEE ASSESSMENT ORAL AND PRACTICAL SKILLS**

CONDUCT HYDRAULIC ROTATIONAL DRILLING & RIG OPERATIONS ASSESSMENT GUIDE:

ELEMENT OF C	OMPETENCE:	Conduct Hydraulic Rotational Drilling & Rig Operations
WORKPLACE A	SSESSOR:	
WORKPLACE C	PERATOR:	
PERFORMANCE: CONDITION:	• Eng • Corr • Mer	I Rig I Rods ineers detail rect Tools
STANDARD:	In accordance wi Procedures, Coal	th Appin Colliery Standard Operating Mines Regulations Act, Occupational Health tres, & without injury to personnel or without

RESULT		ASSESSMENT CRITERIA - OPERATION OF MACHINE	
COMPETENT	COACHING REQUIRED	ASSESSMENT CHITCHIA - OF ENATION OF MACHINE	
		ORAL (QUESTIONS)	
	i e digan	Explain how often a Colliery Official is required to make an inspection pursuant to the Coal Mines Regulation	
		<ul> <li>an inspection is required no more than four (4) hours before work commences and inspections at four (4) hourly intervals while drilling operations are underway, or at seven (7) hourly intervals whilst general operations are undertaken, such as setting up the rig or recovering gear</li> </ul>	







# ASSESSMENT - HYDRAULIC DRILL RIG OPERATIONS (KEMPE)

COMPETENT	COACHING REQUIRED	ASSESSMENT CRITERIA - OPERATION OF MACHINE
		2. Explain the action you would take if these inspections were not fulfilled or if you are in doubt as to whether an inspection had been carried out?
		If a statutory inspection is not confirmed or completed, then you can ask the panel deputy, read the Shift Equipment Report Book, or telephone Control and ask them to clarify the situation if possible, and if necessary, arrange for the appropriate inspection to be completed
		3. What P.P.E. would you use when drilling?
		- safety glasses
		- gloves
		- ear protection
		4. What safety precautions would you use when drilling?
		- check for 'out of service' and/or 'danger' tags
		- check for damage to equipment
		- check for loose or missing items
		- use correct P.P.E.
		- check mentor present and operational
		- check roof and sides
		5. Explain the purpose of the Shift Equipment Report Book
		<ul> <li>to record drill progress and record any geological anomalies encountered whilst drilling</li> </ul>
		6. Identify how you would obtain details required to carry out the job
		read notes prepared by drilling engineer
		- ask Supervisor and/or Control
		- ask drilling engineer



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#### ASSESSMENT - HYDRAULIC DRILL RIG OPERATIONS (KEMPE)

RESULT		ASSESSMENT CRITERIA - PLAN AND PREPARE
	PEGODEO	
		7. Explain use of mentor and identify checks to be carried out
		demonstrate percentage checks
		percentage to be noted:
		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
		PRACTICAL (DEMONSTRATION)
		8. Plan and prepare for operations
		- communicate with supervisor and/or off-going operator
		<ul> <li>talk to operators about current drilling status, hazards, drilling conditions and other related factors</li> </ul>
	a bell	confirm statutory inspections have been completed by a mining official
	in the major	<ul> <li>read deputy's report book at deputy' station or receive verbal confirmation from deputy (if present at site)</li> </ul>
		- read Deputy's board
		- inspect area and mining environment for hazards
		- check roof and sides for security
		- check for accumulations of gases using AMD
		<ul> <li>position AMD correctly (upper third of roadway within 10m of the return side of the hole)</li> </ul>
		- remedy any defects if possible
		- conduct site inspection for adequate supplies and equipment
	n referro	- mark off supplies and equipment
		- report deficiencies to supervisor and record in drilling report
	day.	9. Carry out pre start checks
		- check for 'danger tags' or 'out of service' tags
		- check equipment for damage







### ASSESSMENT - HYDRAULIC DRILL RIG OPERATIONS (KEMPE)

RESULT COACHING		ASSESSMENT CRITERIA - PLAN AND PREPARE	
		check for loose or missing items check for excessive coal build up check position of machine is secure check roof jacks are hard in roof check suction is in place and working correctly check for water in line and drain if required check levers and controls are off or in neutral check hydraulic oil level is adequate check air supply and ensure safety clips are in place check air supply and ensure safety clips are in place check waste water pump is operational remedy any defects if possible or report to supervisor check drilling report book for previous shift outcome and current status of the drilling operations  10. Safe operation of Hydraulic Rotational Drill Rig turn on power and water power on at load centre (may require insertion of plug) operate drilling equipment switch on hydraulic pump turn on water and allow tank to fill turn on water pump drill forward allow water to flush drill face close chuck and open rod holder operate forward rotation operate forward feed (observe correct feed rate for rotation	
		i.e. feed too high  rods will jam; feed too slow - bit may not stay in seam or may hit floor. This is indicated by listening to the hydraulic pump	

#### ASSESSMENT - HYDRAULIC DRILL RIG OPERATIONS (KEMPE)

REBULT		
	PEQUINED	ASSESSMENT CRITERIA - OPERATE
		it will begin to labour as the feed is increased. When change in pitch is heard, correct setting has been attained.
		addition of drill rod to advance hole
	149	position rod joint to facilitate uncoupling
	THE PARTY	- add next rod
		- activate 'couple/uncouple' lever
		- apply forward rotation to tighten rods
		add water and flush drill string
		11. Demonstrate 'stop drilling' procedure
		means a hole has reached it's required depth
	9	- flush with water and then air to clean hole
		- withdraw drill string
	111111111111111111111111111111111111111	position joint to facilitate breaking rods
		- operate 'couple/uncouple' lever with rod clamps ON
	- 1/5/4	- reverse rotation to uncouple rods
		- remove rod and stack neatly
		when all rods removed, put hole on 'suction'
		- remove stifling box
		- install reducer and valve set
		- install suction hose to valve and suction inlet
		- ensure valve is fully ON at hole and at suction range
		- ensure air, water and power is isolated
		12. Operator Reporting
11 122		<ul> <li>report details to supervisor, on-coming operator and/or Control</li> </ul>
		- record results in Shift Equipment Report Book
		MAINTENANCE AND REPAIR
		Note: All maintenance and repair will require the same planning and preparation PLUS operator reporting (As shown below in Sections 13 & 14)

