

<b>Title</b>	Maintenance – Coiled Tubing Equipment					
<b>Target Population</b>	Field Engineers, Field Specialists & Equipment Operators					
This requirement is applicable to:	✓	JFE	✓	FST	✓	EOT
	✓	FE1	✓	FS1	✓	EO1
		FE2		FS2	✓	EO2
				FS3	✓	EO3
					✓	GEO

**Objective:**

The objective of this task is to evaluate and verify the employee’s competency in performing basic maintenance on Coil Tubing Unit under supervision including:

Description		JFE	FE1	FST	FS1	EOT	EO1	EO2	EO3	GEO
1	Batch Mixer	✓		✓		✓	✓			✓
2	Fluid Pumping Unit	✓		✓			✓	✓		✓
3	Nitrogen Converter	✓	✓		✓			✓	✓	✓
4	Coiled Tubing Unit including:	✓	✓		✓				✓	✓
	<i>Power Pack</i>									
	<i>Control Cabin</i>									
	<i>CT Reel</i>									
	<i>Injector Head</i>									
	<i>Pressure Control Equipment</i>			✓						
5	Basic BHA Components	✓	✓	✓				✓	✓	✓

The employee should be able to identify the components of CT equipment including those found in hydraulic circuits, explain their functions, ratings and maintenance procedures. This include filling out the EMC 1 form.

He should have basic knowledge of hydraulics including the various components and principles of operations.

**Tasks:**

The employee will be assigned under an experienced mechanic / electrician or a mentor in the base to guide him in performing the maintenance tasks. This include tracing of the hydraulic lines by referring to Operation and Maintenance Manual.

1. Identify the main components and functions of CTU (i.e. injector head, CT reel, stripper, BOP etc.)
2. Identify main components and functions of basic BHA
3. Physically check the CTU components and fill out the EMC 1 form.
4. Assist in assembly and disassembly of the following components (whenever possible):
  - Injector head conversion. Identify each parts.

- Reel swivel maintenance. Identify each parts.
  - Stripper (replace inserts/brass bushing). Identify each parts.
  - BOP conversion/replacing inserts including function and pressure testing. Identify each parts.
  - Downhole tools (connectors, check valves, nozzles)
5. Show and explain the hydraulics system of the CT unit.
  6. Prepare a report for the activities and explain it to the assigned mentor

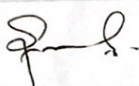
**IMPORTANT NOTE:** The assigned Assessor must conduct the required evaluation to evaluate employee's competency and provide feedback through the respective Task Evaluation Forms PRIOR TO completing this Task Sheet.

This task is deemed INCOMPLETE without the Task Evaluation Forms


**Brief summary of employee's learning outcome (to be completed by Assessor):**

- 1 - ABLE TO OPERATE BATCH MIXER
- 2 - ABLE TO TROUBLESHOOT BASIC PART OF THE BATCH MIXER.
- 3 - ABLE TO PERFORM BASIC MAINTENANCE ON BATCH MIXER.

Assessor's Comments & Recommendation:  
 HAZIQ IS A WORKER WITH GOOD DISCIPLINE. HE QUICKLY UNDERSTOOD WHAT WAS TAUGHT TO HIM, ESPECIALLY HOW TO OPERATE AND TROUBLESHOOT ON BATCH MIXER. EVERY TASK GIVEN IS COMPLETED PERFECTLY.

Signature		Assessment Date	26/02/2024
Name	YUSOF MUZAL	Position	MAINTENANCE SUPT.

FSM / OM Comments & Recommendation:  
 He is able to operate & troub perform maintenance under minimum supervision.

Signature		Assessment Date	26/2/24
Name	M. KHAIRUL RIDHWAN AZIZI CTS FIELD SERVICE MANAGER Dimension Bid (M) Sdn Bhd	Position	

# TASK EVALUATION FOR BASIC MAINTENANCE

(ref. CTS-FORM-93 BASIC MAINTENANCE)

NAME	MUHAMMAD ABDUL HAZIQ BIN MOHD NOR
EMPLOYMENT DATE	27/3/2022
PERFORMANCE CRITERIA	<ol style="list-style-type: none"> <li><b>Equipment design, technical specification, components and functions:</b> Know and understand equipment design, technical specifications, components and functions</li> <li><b>Equipment operation:</b> Able to operate the equipment</li> <li><b>Equipment maintenance / care:</b> Able to perform equipment recommended care / maintenance</li> <li><b>Equipment maintenance report:</b> Able to track on all required equipment data prior to plan for next maintenance</li> <li><b>Maintenance analysis:</b> Able to analyse equipment problem based on problem report and EMC. Hence, to identify root cause and best practice to avoid the same problem from happen</li> </ol>


## ASSESSMENT RESULT SUMMARY

Element of Competency	Score	Assessed By	Assessment Date	
1. Batch Mixer	88%			
2. Fluid Pumping Unit	/			
3. Nitrogen Converter				
4. Coiled Tubing Unit				
4.1 Power Pack				
4.2 Control Cabin				
4.3 CT Reel				
4.4 Injector Head		N/A		
4.5.1 Pressure Control Equipment (Stripper)				
4.5.2 Pressure Control Equipment (SBOP)				
4.5.3 Pressure Control Equipment (Combi BOP)				
5. Maintenance Reporting				

**Important Note:** The minimum passing score is 80%. If the score falls below the minimum passing score, the employee must repeat the assessment

Assessor's Comments & Recommendation (COMPULSORY):

Candidate has shown skill in his work especially to operate batch mixer.

Signature		Assessment Date	23/05/24
Name	TAUFIQ	Position	CJ. SUPERVISOR

12/20/24

# 1. BATCH MIXER

THEORY	COMMENT
1. Identify the Batch Mixer and explain its functions	10
2. Show where the following components of Batch Mixer Power Pack and explain the function	
i. Engine component	8
ii. Hydraulic line	7
iii. Parameter on control panel	10
iv. Zone 2 system	8
3. Show where the following components of Batch Mixer Tank and explain the function	
i. C-Pump	8
ii. Agitator	10
iii. Actuator Valve	10
iv. Butterfly Valve	10
v. Volute	8
vi. Jetting	8
4. How did you rig up hydraulic hose from BMX Power Pack to Tank?	9
5. How did you rig up 4" line?	9
6. What should you check BEFORE start the Batch Mixer Power Pack?	9
7. What should you check and monitor during operating the Batch Mixer Power Pack?	9
8. What is the safety precaution during operating the Batch Mixer Power Pack?	8
9. What should you check BEFORE stop the Batch Mixer Power Pack?	8
10. What should you check BEFORE start the Batch Mixer Tank?	8
11. What should you check and monitor during operating the Batch Mixer Tank?	9
12. What is the safety precaution during operating the Batch Mixer Power Pack?	9
13. What should you check BEFORE stop the Batch Mixer Tank?	9
<b>PRACTICAL</b>	
1. Show how to carry out following basic maintenance	8
i. Check coolant level	
ii. Replace fan and alternator belt	
iii. Replace engine oil filter	
iv. Check battery voltage	
v. Clean crankcase vent breather	
vi. Clean exhaust cooler (pyroban)	
vii. Change transmission oil	
viii. Change fuel filter	
ix. Replace air filter	
x. Clean flame trap	
xi. Grease bearing	
xii. Redress c-pump	

OVERALL SCORE	STRONG			ADEQUATE			IMPROVEMENT NEEDED		
	10	9	8	7	6	5	4	3	2

# TASK EVALUATION FOR BASIC MAINTENANCE

(ref. CTS-FORM-93 BASIC MAINTENANCE)

NAME	MUHAMMAD ABDUL WAHID BIN MOHD NOR
EMPLOYMENT DATE	27/3/2022
PERFORMANCE CRITERIA	<ol style="list-style-type: none"> <li><b>Equipment design, technical specification, components and functions:</b> Know and understand equipment design, technical specifications, components and functions</li> <li><b>Equipment operation:</b> Able to operate the equipment</li> <li><b>Equipment maintenance / care:</b> Able to perform equipment recommended care / maintenance</li> <li><b>Equipment maintenance report:</b> Able to track on all required equipment data prior to plan for next maintenance</li> <li><b>Maintenance analysis:</b> Able to analyse equipment problem based on problem report and EMC. Hence, to identify root cause and best practice to avoid the same problem from happen</li> </ol>


## ASSESSMENT RESULT SUMMARY

Element of Competency	Score	Assessed By	Assessment Date	
1. Batch Mixer	89%		23/05/24	
2. Fluid Pumping Unit	NA			
3. Nitrogen Converter				
4. Coiled Tubing Unit				
4.1 Power Pack				
4.2 Control Cabin				
4.3 CT Reel				
4.4 Injector Head				
4.5.1 Pressure Control Equipment (Stripper)				
4.5.2 Pressure Control Equipment (SBOP)				
4.5.3 Pressure Control Equipment (Combi BOP)				
5. Maintenance Reporting				

**Important Note:** The minimum passing score is 80%. If the score falls below the minimum passing score, the employee must repeat the assessment

Assessor's Comments & Recommendation (COMPULSORY):

CANDIDATE SHOWS DEEP INTEREST AND UNDERSTANDING OF WHAT IS BEING DONE.

Signature		Assessment Date	23/07/24
Name	YURY ANWA	Position	MS

THEORY

1. Identif...




# TASK EVALUATION FOR BASIC MAINTENANCE

(ref. CTS-FORM-93 BASIC MAINTENANCE)

NAME	MUHAMMAD ABDUL HAZIQ BIN MOHD NOR
EMPLOYMENT DATE	27/3/2022
PERFORMANCE CRITERIA	<ol style="list-style-type: none"> <li><b>Equipment design, technical specification, components and functions:</b> Know and understand equipment design, technical specifications, components and functions</li> <li><b>Equipment operation:</b> Able to operate the equipment</li> <li><b>Equipment maintenance / care:</b> Able to perform equipment recommended care / maintenance</li> <li><b>Equipment maintenance report:</b> Able to track on all required equipment data prior to plan for next maintenance</li> <li><b>Maintenance analysis:</b> Able to analyse equipment problem based on problem report and EMC. Hence, to identify root cause and best practice to avoid the same problem from happen</li> </ol>


## ASSESSMENT RESULT SUMMARY

Element of Competency	Score	Assessed By	Assessment Date
1. Batch Mixer	87%	<i>[Signature]</i>	23/5/24
2. Fluid Pumping Unit			
3. Nitrogen Converter			
4. Coiled Tubing Unit			
4.1 Power Pack			
4.2 Control Cabin		NA	
4.3 CT Reel			
4.4 Injector Head			
4.5.1 Pressure Control Equipment (Stripper)			
4.5.2 Pressure Control Equipment (SBOP)			
4.5.3 Pressure Control Equipment (Combi BOP)			
5. Maintenance Reporting			

**Important Note:** The minimum passing score is 80%. If the score falls below the minimum passing score, the employee must repeat the assessment

Assessor's Comments & Recommendation (COMPULSORY):

~~She~~ Candidate had demonstrate a good practice as standalone Bmx operator.  
He

Signature		Assessment Date	23/5/24
Name	Fidhwan Arizan	Position	FSM

THEORY

1. Identify the -
2. St

BMX operator

## 1. BATCH MIXER

THEORY	COMMENT
1. Identify the Batch Mixer and explain its functions	10
2. Show where the following components of Batch Mixer Power Pack and explain the function	
i. Engine component	8
ii. Hydraulic line	7
iii. Parameter on control panel	10
iv. Zone 2 system	8
3. Show where the following components of Batch Mixer Tank and explain the function	
i. C-Pump	8
ii. Agitator	10
iii. Actuator Valve	10
iv. Butterfly Valve	10
v. Volute	8
vi. Jetting	8
4. How did you rig up hydraulic hose from BMX Power Pack to Tank?	9
5. How did you rig up 4" line?	9
6. What should you check BEFORE start the Batch Mixer Power Pack?	9
7. What should you check and monitor during operating the Batch Mixer Power Pack?	9
8. What is the safety precaution during operating the Batch Mixer Power Pack?	8
9. What should you check BEFORE stop the Batch Mixer Power Pack?	8
10. What should you check BEFORE start the Batch Mixer Tank?	8
11. What should you check and monitor during operating the Batch Mixer Tank?	9
12. What is the safety precaution during operating the Batch Mixer Power Pack?	9
13. What should you check BEFORE stop the Batch Mixer Tank?	9
<b>PRACTICAL</b>	
1. Show how to carry out following basic maintenance	
i. Check coolant level	
ii. Replace fan and alternator belt	
iii. Replace engine oil filter	
iv. Check battery voltage	
v. Clean crankcase vent breather	
vi. Clean exhaust cooler (pyroban)	
vii. Change transmission oil	
viii. Change fuel filter	
ix. Replace air filter	
x. Clean flame trap	
xi. Grease bearing	
xii. Redress c-pump	8

OVERALL SCORE	STRONG			ADEQUATE			IMPROVEMENT NEEDED		
	10	9	8	7	6	5	4	3	2
			8						

# DIMENSION BID

## Equipment Maintenance Checklist 1

PRE JOB	LOCATION	ON JOB	LOCATION	POST JOB	LOCATION
		<input checked="" type="checkbox"/>	ALHGH		

Equipment type : CTU Batch Mixer  
 Location Mob/Demob : ALHGH  
 Equipment number : BMX 01

Y	N	Checklist
<b>Appearance and Safety Equipment:</b>		
<input checked="" type="checkbox"/>		Ensure unit appearance good and clean
<input checked="" type="checkbox"/>		Verify that all earth/ground cables are in place, well connected
<input checked="" type="checkbox"/>		Skid condition - visually check for any damage
<input checked="" type="checkbox"/>		Fire extinguisher is present and certified 12/31/24
<b>Cooling System:</b>		
<input checked="" type="checkbox"/>		Coolant level & condition
<input checked="" type="checkbox"/>		Check visible leaks
<input checked="" type="checkbox"/>		Radiator hose & clamp condition
<input checked="" type="checkbox"/>		Perform visual and physical check on radiator fin
<b>Engine Inspection:</b>		
<input checked="" type="checkbox"/>		Check engine oil level (SAE 15w-40) not be milky or too dark
<input checked="" type="checkbox"/>		Check any general leaks on all filter hoses, and connectors.
<input checked="" type="checkbox"/>		Check fan, hub, fanbelt condition/ tension
<input checked="" type="checkbox"/>		Check Battery cable connectors (if applicable)
<input checked="" type="checkbox"/>		Check condition of engine hoses
<input checked="" type="checkbox"/>		Check for rusted part- repair/repaint if required
<input checked="" type="checkbox"/>		Check the crankcase vent system for excessive blow by
<input checked="" type="checkbox"/>		Check engine mounting condition - tight any loose bolt
<b>Controls / Instrumentation:</b>		
<input checked="" type="checkbox"/>		Normal kill tested
<input checked="" type="checkbox"/>		Emergency kill tested
<input checked="" type="checkbox"/>		Oil pressure gauge in good condition
<input checked="" type="checkbox"/>		Tachometer display in good condition
<input checked="" type="checkbox"/>		Throttle control in good condition
<input checked="" type="checkbox"/>		Engine stop cable/button in good condition
<input checked="" type="checkbox"/>		Engine start cable/button in good condition
<b>Exhaust System:</b>		
<input checked="" type="checkbox"/>		Pipework - check for any leak or damage
<input checked="" type="checkbox"/>		Condition/Operation of exhaust flapper
<input checked="" type="checkbox"/>		Condition of exhaust wrap are in place and in good condition
<b>Transmission, Gearbox:</b>		
<input checked="" type="checkbox"/>		Check level Sight glass/dipstick shows in full (SAE 90)
<input checked="" type="checkbox"/>		Check condition of the gearbox breather filter
<b>Hydraulic System:</b>		
<input checked="" type="checkbox"/>		Check Hyd. Hoses/valve/connections undamage and clean
<input checked="" type="checkbox"/>		Hyd.tank - drain any water
<input checked="" type="checkbox"/>		Check hydraulic oil level (2" from top) (Tellus 46)
<input checked="" type="checkbox"/>		Check hydraulic gauges
<input checked="" type="checkbox"/>		Check condition of fittings & couplings
<b>Fuel System:</b>		
<input checked="" type="checkbox"/>		Check for any water contamination in the fuel filter sight bowl
<input checked="" type="checkbox"/>		Check fuel tank breather cap condition
<input checked="" type="checkbox"/>		Check for leaks on fuel lines, connections, and hoses
<input checked="" type="checkbox"/>		Fuel filter - check condition
<input checked="" type="checkbox"/>		Fill up the diesel tank to 90% (If applicable)
<input checked="" type="checkbox"/>		Drain 1 litre fuel from drain valve

Running Hours : 186  
 Date : 2015/12/3

Y	N	Checklist
<b>Air System:</b>		
<input checked="" type="checkbox"/>		Check any visible leaks - ensure air up 90-110psi
<input checked="" type="checkbox"/>		Gauges in good condition
<input checked="" type="checkbox"/>		Air reservoir /tanks - drain any water
<input checked="" type="checkbox"/>		Air hose,connections,piping, valves and actuators condition
<input checked="" type="checkbox"/>		All pneumatic control valve working properly
<input checked="" type="checkbox"/>		All gauges in good condition
<b>Air Cleaner:</b>		
<input checked="" type="checkbox"/>		Check the element for water or soot and clean as required
<b>Zone II System:</b>		
<input checked="" type="checkbox"/>		Flame traps - check cleanliness
<input checked="" type="checkbox"/>		Air intake valve (flapper) - check condition
<input checked="" type="checkbox"/>		Spark arrestor - check condition
<b>Paddles / Agitator:</b>		
<input checked="" type="checkbox"/>		Check oil level (SAE 90)
<input checked="" type="checkbox"/>		Grease bearing
<input checked="" type="checkbox"/>		Check agitators rotation
<b>System Pressure:</b>		
		Fuel pressure@idle speed      psi
		Fuel pressure@1800 RPM      psi
<input checked="" type="checkbox"/>		Oil pressure @ cold start      80 psi
<input checked="" type="checkbox"/>		Oil pressure @ 180deg.F      40 psi
<b>Certifications:</b>		
		Sling condition/ Due on      08/12/23
		MPI due      08/12/23
		Visual Test due      08/12/23

Please state the equipment readiness

Ready	Not Ready
- Unit ready to run. - Some Actuator BA need to change	

Maintenance type done.(Please state if any spare used)

Preventive Maintenance	Corrective Maintenance

NAME	POSITION	EXAMINER SIGNATURE	VERIFIED BY
Henry	EOC	Henry	Jim A

# DIMENSION BID

## Equipment Maintenance Checklist 1

<b>Equipment type</b> : Batch Mixer Tank	<b>PRE JOB</b>	<b>LOCATION</b>	<b>ON JOB</b>	<b>LOCATION</b>	<b>POST JOB</b>	<b>LOCATION</b>																																																																																																																																	
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Safety Equipment:</b>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ensure unit is clean	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Skid condition - visually check for any damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Walkway/Ladders - check for any damage	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Ensure anti slip installed at walkway/ladder	<b>Labelling</b>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	MGW and SWL in place	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Last annual inspection	<b>Lifting Devices</b>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Inspection on shackles and pins, slings and lugs	<input checked="" type="checkbox"/>	<input type="checkbox"/>	MPI on pad eye if necessary	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Mark the inspection date and due date	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Load test is current	<input checked="" type="checkbox"/>	<input type="checkbox"/>	All protection caps and ID tags in place.	<b>Corrosion, Dent, Defects in Weld</b>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Check for rust in weld, no leaks	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Check for leakages or any damage at tank	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Check all piping, manhole covers, valves	<b>Safety Equipment and Certification</b>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	Visual inspection of all pad eyes and lifting gear	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Safety guards and rail in working condition	<table border="1" style="width:100%; 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paddle</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Check condition of suction &amp; discharge piping</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Check condition of B/F Valve &amp; grease</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Check condition of safety railing w/comp lock pin</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Mixing head + circulation jet - no cement build up</td> </tr> <tr> <td colspan="3"><b>Paddles / Agitator:</b></td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Check oil level (SAE 90)</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Grease bearing</td> </tr> <tr> <td><input checked="" type="checkbox"/></td> <td><input type="checkbox"/></td> <td>Check agitators rotation</td> </tr> <tr> <td colspan="3"><b>Certifications:</b></td> </tr> <tr> <td></td> <td></td> <td>Sling condition/ Due on 06/23</td> </tr> <tr> <td></td> <td></td> <td>MPI due 06/23</td> </tr> <tr> <td></td> <td></td> <td>Visual Test due 06/23</td> </tr> </tbody> </table>				Y	N	Checklist	<b>C-Pump:</b>			<input checked="" type="checkbox"/>	<input type="checkbox"/>	C-Pump packing - check condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Check operation and shut-in pressure	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4x5 C-Pump > 45 psi	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5x6 C-Pump > 55 psi	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Perform circulation test	<b>Mixing tank &amp; 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<b>Lifting Devices</b>																																																																																																																																							
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