

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
Appearance and Safety Equipment:		
<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
Cooling System:		
<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
Engine Inspection:		
<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
Controls / Instrumentation:		
<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
Exhaust System:		
<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
Transmission, Gearbox:		
<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
Hydraulic System:		
<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
Fuel System:		
<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
Air System:		
<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
Air Cleaner:		
<input checked="" type="checkbox"/>		Check the element for water or soot and clean as required
Zone II System:		
<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
Paddles / Agitator:		
<input checked="" type="checkbox"/>		Check oil level (SAE 90)
<input checked="" type="checkbox"/>		Grease bearing
<input checked="" type="checkbox"/>		Check agitators rotation
System Pressure:		
		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
Certifications:		
		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
<p>- Unit ready to run. - Some Actuator BA need to change</p>	

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

Preventive Maintenance	Corrective Maintenance

NAME	POSITION	EXAMINER SIGNATURE	VERIFIED BY
Henry	EOC	<i>Henry</i>	<i>Jim A</i>

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COILED TUBING PERFORMANCE ASSESSMENT FEEDBACK

(PART 1: To be completed by Assessor)

Name	MUHAMMAD ABDUL HAZIQ BIN MOHD NOR	COB Date	18-May-23
Position	EQUIPMENT OPERATOR TRAINEE	RTB Date	10-Jun-23
Client	PCSB	Location	ANGSI
Platform	ANGSI-ANDRA	Well	A-12S
Assessed By	MUHAMAD TAUFIQ ISMAIL	Position:	COILED TUBING SUPERVISOR

Assessment Criteria	Rating (Please ✓ where appropriate)
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Safety Awareness

- a. Usage of Personal Protective Equipment Excellent Very Good Good Satisfactory Poor
- b. Participation UAUC Excellent Very Good Good Satisfactory Poor
- c. Understanding of PTW System Excellent Very Good Good Satisfactory Poor
- d. Worksite House Keeping Excellent Very Good Good Satisfactory Poor

Work Competency

- a. Pre-job Preparation Excellent Very Good Good Satisfactory Poor
- b. Surface Equipment Rig-up Process Excellent Very Good Good Satisfactory Poor
- c. Tools/Equipment Preparation Excellent Very Good Good Satisfactory Poor
- d. Equipment Problem Trouble Shooting Capability Excellent Very Good Good Satisfactory Poor
- e. Downhole Tools Servicing/Redressing/Maintenance Excellent Very Good Good Satisfactory Poor
- f. Initiative and Creativity Excellent Very Good Good Satisfactory Poor
- g. Decision Making Capability Excellent Very Good Good Satisfactory Poor
- h. Understanding of Job Scope Excellent Very Good Good Satisfactory Poor
- i. Tools Inventory Preparation & Reporting Excellent Very Good Good Satisfactory Poor
- j. Work Quality Excellent Very Good Good Satisfactory Poor
- k. Reporting Excellent Very Good Good Satisfactory Poor

Others


- a. Punctuality and Time Keeping Excellent Very Good Good Satisfactory Poor
- b. Teamwork Excellent Very Good Good Satisfactory Poor
- c. Communication Excellent Very Good Good Satisfactory Poor
- d. Leadership Skills Excellent Very Good Good Satisfactory Poor
- e. Adaptability to Work Environment/Surrounding Excellent Very Good Good Satisfactory Poor
- f. Attitude Excellent Very Good Good Satisfactory Poor
- g. Discipline Excellent Very Good Good Satisfactory Poor


OVERALL PERFORMANCE

- Excellent Very Good Good Satisfactory Poor

REMARKS/COMMENTS/FEEDBACK ON PERFORMANCE OR AREAS OF IMPROVEMENT:

Assign as Bmx assistant during working period.
Capable of handling variety of assignment and able to operate Bmx unit.

Assessed By : 
Name : TAUFIQ ISMAIL
Date : 10/06/2023

Agreed By : 
Name : RIDWAN AZWAN
Date : 5/3/24

ENSION BID

COILED TUBING PERFORMANCE ASSESSMENT FEEDBACK

(PART 2: To be completed by Employee and Assessor)

Type of Task	Tasks Performed	Assessor Comment
1. Pre-Job Preparation	<ol style="list-style-type: none"> Attend toolbox and morning meeting with CSR. Assisted crew in lifting all CTU equipment and spot unit. Pre-check/EMC1 all CTU equipment before run the job. Prepare E-Ptw for each work to be performed. 	Good Job
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input type="checkbox"/> Basic <input checked="" type="checkbox"/> Broad <input type="checkbox"/> Detail	
2. Surface Equipment Rig-up	<ol style="list-style-type: none"> Assist crew to rig up pumping surface line from SP01 to coil reel and kill port to combi BOP. Assist crew to rig up N2 line from NCV to CT reel. Rig up 4" hose from fluid storage tank to SP01. Rig up 4" hose from BMX tank to SP01. Spot/arrange flood light, control cabin and tool container electric cable to junction box. Rig up water injection line from well A-275 to fluid storage tank. Rig up wilden pump, 2" spring hose and air hose from sea deck to main deck. 	Good Job
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input type="checkbox"/> Basic <input checked="" type="checkbox"/> Broad <input type="checkbox"/> Detail	
3. Tools / Equipment Preparation	<ol style="list-style-type: none"> Installing air hose from compressor to SP02, BMX02 and wilden pump. Perform EMC1 on Air Compressor and Genset for pre job. Fuel up all CTU equipment. 	Good Job
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input type="checkbox"/> Basic <input checked="" type="checkbox"/> Broad <input type="checkbox"/> Detail	
4. Equipment	4.1 Batch Mixer <ol style="list-style-type: none"> Assist Batch Mixer Operatot to troubleshoot C-Pump malfunction. Found piece of metal stuck at impeller during troubleshoot. Assist Batch Mixer Operator to mix FRS Assist to mix TIW 	Good Job
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input type="checkbox"/> Basic <input checked="" type="checkbox"/> Broad <input type="checkbox"/> Detail	
	4.2 Pump Unit <ol style="list-style-type: none"> Assist crew to rig up surface pumping line. 	Good Job
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input checked="" type="checkbox"/> Basic <input type="checkbox"/> Broad <input type="checkbox"/> Detail	

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(PART 2: To be completed by Employee and Assessor)

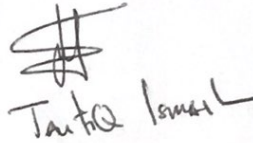
Type of Task	Tasks Performed	Assessor Comment
	4.3 Nitrogen Pump unit & Nitrogen Tank 1. Assist crew to rig up 2" HP treating line to CT reel and include bleed off line. 2. Assist crew to rig up cryogenic hose from N2 tank to inlet and outlet line on NCV.	Good Assist
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input checked="" type="checkbox"/> Basic <input type="checkbox"/> Broad <input type="checkbox"/> Detail	
	4.4 Power Pack 1. Assist to rig up hydraulic power hose to Injector Head. 2. Assist to rig up hose from CTU Power Pack to Control Cabin.	Good Assist
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input checked="" type="checkbox"/> Basic <input type="checkbox"/> Broad <input type="checkbox"/> Detail	
	4.5 Control Cabin 1. Assist to rig up hydraulic hose and connected to CT Reel, Injector Head and BOP.	Good Assist
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input checked="" type="checkbox"/> Basic <input type="checkbox"/> Broad <input type="checkbox"/> Detail	
	4.6 CT Reel 2. Assist to connect hydraulic hose from control cabin. 3. Assist crew to install horse head at CIDF.	Good Assist
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input checked="" type="checkbox"/> Basic <input type="checkbox"/> Broad <input type="checkbox"/> Detail	
	4.7 Injector Head 1. Assist to stab in CT to Injector Head	Good Assist
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input checked="" type="checkbox"/> Basic <input type="checkbox"/> Broad <input type="checkbox"/> Detail	

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(PART 2: To be completed by Employee and Assessor)

Type of Task	Tasks Performed	Assessor Comment
	4.8 Pressure Control Equipment 1. Assist to connect hydraulic hose from Control Cabin to SBOP and Combl.	Good Assist
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input checked="" type="checkbox"/> Basic <input type="checkbox"/> Broad <input type="checkbox"/> Detail	
	4.9 Basic BHA Components 1. Assist crew to make up BHA. 2. Assist CT Supervisor to prepare BHA to be use during job.	Good Assist
Assessor's Evaluation:	Level of Skill & Knowledge <input type="checkbox"/> Awareness <input checked="" type="checkbox"/> Basic <input type="checkbox"/> Broad <input type="checkbox"/> Detail	

DATE	Assignment/Summary Job/Duration
18 MAY 2023 to 10 JUNE 2023	CTU Tubing Cutter via Mechanical Cutter on well A-12S Mobilized from KSB to Angsi A on 18 May 2023. When arrived at location, start to offload all cargo from Setia Luhur. After completed, proceed to start rig up CTU equipment and surface line on maindeck. Split crew after completed rig up. I was assigned as Helper on Night Shift. On well A-12S, we are performing Tubing Cutter via Mechanical Cutter using Wellpro Downhole Tools. During this job, I was actively assist my colleague to make the job run smoothly. I assisted Batch Mixer Operator to mix FRS. During this hitch also I learn to operate Batch Mixer. I also learn on how to troubleshoot Batch Mixer C-Pump. Went back to KSB on 10 June 2023.
	 Tarko Ismail

Title	Equipment Operation Under Supervision					
Target Population	Field Engineers, Field Specialists & Equipment Operators					
This requirement is applicable to:	✓	JFE	✓	FST	✓	EOT
					✓	EO1
					✓	EO2
					✓	EO3

Objective:

The objective of this task is to evaluate and verify the employee's skills and knowledge in operating the following equipment efficiently under supervision:

Description		JFE	FST	EOT	EO1	EO2	EO3
1	Batch Mixer	✓	✓	✓			
2	Fluid Pumping Unit		✓		✓		
3	Nitrogen Converter (pump & tank?)		✓			✓	
4	Coiled Tubing Unit		✓				✓



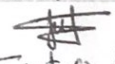
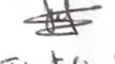
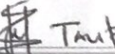
IMPORTANT NOTE: Please submit one (1) task sheet for each equipment


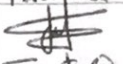
Tasks:

A mentor or any experienced team member assigned by the mentor will guide the employee to complete this task.

The assigned mentor is expected to train the employee and to conduct an evaluation to ensure that the employee achieves the required competency level for his position.

The employee should complete the following tasks:

NO	TASK	STATUS/DATE	MENTOR NAME/SIGN
1	Under the guidance of your assigned mentor, learn about equipment at the location and the important devices installed The employee must understand the design and the functions of the equipment as well as its components	20/11/23	 Taufiq Ismail
2	Understand the basic operation as well as safety related issues	20/11/23	 Taufiq Ismail
3	Learn how to run the equipment safely and efficiently from the assigned mentor	20/11/23	 Taufiq Ismail
4	Perform pre and post job EMC 1 effectively for the unit	20/11/23	 Taufiq Ismail
5	Participate in the maintenance activity for the unit	20/11/23	 Taufiq Ismail

6	Operate the equipment under supervision in actual jobs	20/11/23	 Taufiq Ismail
7	Review and agree performance of each task with your Mentor in order to validate its completion	20/11/23	 Taufiq Ismail

REQUIRED EVIDENCE:

- 1 **CTS-FORM-90** Coiled Tubing Performance Assessment Feedback
- 2 **EMC 1** for the specified equipment



DIMENSION BID

CTS TASK SHEET


MENTOR / ASSESSOR'S FEEDBACK:

NO	TASK	FEEDBACK
1	The employee demonstrates good knowledge of the design and the functions of the equipment and its components	Good knowledge on the Bmx unit
2	The employee understands the basic operation as well as the safety related issues	Good understanding
3	The employee demonstrates required skills and knowledge to perform pre and post job EMC 1 effectively for the unit	Done EMC 1 as required
4	The employee is ABLE to operate the Batch Mixer / Fluid Pumping Unit / Nitrogen Converter / Coiled Tubing Unit UNDER SUPERVISION in actual jobs [please circle the relevant equipment] Note: Please specify the job supported by CTS-FORM-90 Coiled Tubing Performance Assessment Feedback	Able to operate Bmx unit in actual jobs.

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


MENTOR / ASSESSOR's Comments & Recommendation:

- Able to operate Bmx unit without supervision and can stand alone to operate the unit.
- Have good knowledge on Bmx unit and fast learner.

Signature		Assessment Date	20/11/23
Name	Taufiq Iemal	Position	CTS SUPERVISOR

FSM / OM Comments & Recommendation:

- Good evaluation from supervisor
- Able to operate Bmx standalone.

Signature		Assessment Date	5/3/24
Name	RIDWAN AZIZAN	Position	FSM