

## ASSESSMENT CHECKLIST

Unit: CAP 1.3 EXECUTE THE WELL SERVICES OPERATIONS

Element: CAP 1.3.4 Install, retrieve and manipulate circulating and communication devices

PC	Description of Performance Criteria	Description of Evidence	Source of evidence			Competence	Remarks
			O/I	SD	Q/A		
a	Safe working practices and agreed safety measures are implemented and maintained in accordance with statutory and operational requirements.	<p>Examine evidence (e.g. PTW, minutes of pre-job safety/toolbox meeting, job hazard analysis worksheet, job report) provided to confirm compliance.</p> <p>Check candidate's answers to oral/written questions and by direct observation to confirm that he is familiar with :</p> <ul style="list-style-type: none"> <li>- wireline procedures governing well preparation and equipment rig-up for well entry.</li> <li>- safety precautions to be taken during the well entry work.</li> </ul>	✓			C	
b	Downhole service tools are checked and function tested prior to running in.	<p>Examine evidence (e.g. job report, tools/equipment inventory list).</p> <p>Check candidate's answers to oral/written questions and by direct observation to confirm his understanding on :</p> <ul style="list-style-type: none"> <li>- the operating principles of the various downhole services tools and what are the essential areas to check.</li> <li>- the correct way of checking and function testing the various wireline services tools.</li> </ul>	✓			C	

# DIMENSION BID

Element: CAP 1.3.4 Install, retrieve and manipulate circulating and communication devices

PC	Description of Performance Criteria	Description of Evidence	Source of evidence				Competence	Remarks
			O/I	SD	Q/A			
c	Faults and defects are accurately identified and appropriate remedial actions taken in accordance with operational requirements.	Confirm via evidence (e.g. job report). Check candidate's answers to oral/written questions and by direct observation to ascertain underpinning knowledge on troubleshooting techniques and ability to rectify faults encountered.	✓				C	
d	Surface and downhole equipment is manipulated within agreed operating limits for the work being performed.	Confirm via evidence (e.g. job report, and work action program). Check candidate's answers to oral/written questions, written assignment and by direct observation to confirm : - he is familiar with wireline procedures governing the running/pulling of the various types of downhole services tools and the setting/retrieving of circulating and communication devices. - his knowledge on allowable limits on speed, line tension for the specific job. - his understanding on the correct technique of operating the wireline winch unit.	✓				C	
e	Proper installation and manipulation of circulating and communication devices are confirmed in accordance with operational requirements.	Confirm via evidence (e.g. job report). Check candidate's answers to oral/written questions, written assignment and by direct observation to confirm : - he is familiar with wireline procedures governing the setting/pulling of the various types of circulating devices and the closing/opening of communication devices. - his knowledge on allowable limits on speed, line tension for the specific job. - his understanding on the correct technique of operating the wireline winch unit.	✓				C	

# DIMENSION BID

Element: CAP 1.3.4 Install, retrieve and manipulate circulating and communication devices

PC	Description of Performance Criteria	Description of Evidence	Source of evidence				Competence	Remarks
			O/I	SD	Q/A		C / NYC	
f	Data is accurately recorded at appropriate times and frequencies in accordance with operational requirements.	Confirm via evidence (e.g. job report, pressure recorder chart(s)). Check candidate's answers to oral/written questions and by direct observation to confirm he understands the importance of recording relevant data with respect to the specific job, e.g. recording of toolstring weight at various mode and depth intervals, monitoring and recording of relevant surface pressures of the well and tagging liquid level in the well.	✓				C	
g	Calculations required to ensure safe and effective operation are accurate, and are carried out as necessary.	Confirm via evidence (e.g. job report). Check candidate's answers to oral/written questions and by direct observation to confirm that he understand the importance and need to invoke and apply appropriate calculations for certain aspects of the job.	✓				C	

**Legend:**

Source of Evidence:  O/I Observation / Interview

SD Supporting Document

Q / A Written Questions & Answers

Competence  C Competent

NYC Not Yet Competent

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

# DIMENSION BID

Dimension Bid Competency Assurance Program

<b>Assessed by:</b>  <b>ALLEYSON AKIN</b> DIMENSION BID (M) SDN BHD East Malaysia Operation	<b>Agreed by:</b> (TSO)  Amm/kol.1	<b>Verified by:</b> (HOD)  Afiq Ammar
(Name)	(Name)	(Name)
Signature	Signature	Signature
20.9.24	20.9.24	10th Oct 2024
Date	Date	Date

## QUESTIONS TO ASSESS UNDERPINNING KNOWLEDGE (Written/Oral Answers Required)

Unit: CAP 1.3 **EXECUTE THE WELL SERVICES OPERATION**

Element: CAP 1.3.4 **Install, retrieve and manipulate circulating and communication devices**

No.	Question	Relevant PC
1	What are the functions of the Permit To Work system? Name six.	a
2	For the wireline diesel power pack to operate in Zone 2 Hazardous Areas, and as per EEMUA 107, what are the safety features that are required to be incorporated into the power pack.	a
3	If positive keys are used in the 42BO shifting tool, will the tool, with shear pin still intact, release from the SSD when the inner sleeve has been fully shifted up? Explain your answer.	b, c
4	What are the checks that should be carried out on a 142BO positioning tool prior to running it into the well.	b, c
5	What features and components on the 42XO positioning tool allows it to reciprocate between selective and non-selective position? Explain how this is achieved.	b, c
6	When opening a SSD why is it not recommended to open the link jar fully? State the consequences.	d
7	When installing a GLV, are the two sets of tangential shear pins installed on the Camco 'GA-2' running tool jar up to shear or vise versa?	b, e
8	After installing/setting a GLV in the SPM is it necessary to shear off the Locating finger's pin on the KOT to enable release from the particular SPM and also passing through other SPMs while POOH. Explain your answer.	e
9	An incompetent wireline winch operator is evident from the undesirable condition of the 'GA-2' running tool after several usage. Explain why and how the running tool is damaged and state where the damage on the tool is normally incurred.	a, d, e
10	Describe how to retrieve a CIV from the third SPM. You are to include toolstring configuration, service tools selection, type/size of shear pins, pressure equalization calculation, and precautions to be taken while passing through other SPMs.	b, e, f, g
11	Describe how to install/set a BKR-5 in the first SPM. You are to include toolstring configuration, service tools selection, type/size of shear pins, pressures checking, running & pulling speed and confirmation of proper installation.	d, e, f
12	Describe how to close a 3.1/2" SSD using a 42XO positioning tool. You are to include toolstring configuration, size of bottom cap, function testing of tool, maximum allowable line tension, how to accomplish effective and productive jarring and confirmation of SSD fully closed.	b, c, d, e
13	Describe how to open a 2.7/8" SSD using a 142BO positioning tool. You are to include toolstring configuration, function testing of tool, pressure differential issue, manipulation of the toolstring, precautions during jarring operations and proper monitoring of tubing pressure.	a, b, c, d, e, f, g, h

# DIMENSION BID

14	With respect to the following well data, what would be the final CITHP after the SSD is fully open or when pressure across the SSD is fully equalized. Show the steps in your calculation, assuming there is no change in liquid properties and level.  Well Data : - SSD depth 8718 feet, Reservoir pressure = 2700 psig, Liquid gradient = 0.26 ppf. - Liquid level at 1200 feet, Deviation = 0°, CITHP = 50 psig.	g
15	Why do we need to close in the well when running wireline tools?	a
16	What are the differences between the 42BO shifting tool and the 142BO positioning tool?	b
17	Can you use the 42BO type to open the 2 <sup>nd</sup> XO-SSD if the top XO-SSD is in the closed position? Why?	b, c
18	Why is a shear pin incorporate into the design of the 42BO type, and what is the size of the shear pin?	b, c
19	When selective keys are used in the 42BO type, will the tool release from the SSD when the inner sleeve has been shifted up fully, even if the shear pin has not been sheared. Explain your answer.	b, c
20	What is the purpose of the dogs in the 42XO positioning tool and how do you function test this tool?	b, c
21	What special precaution is required when selecting a 42XO positioning tool for running into a well that has Teledyne Merla type SPMs?	b, c
22	Why do you need to install a bottom cap to the bottom pin end of the 42XO positioning tool prior to running it into the well? How is the size of the cap determined?	b, c
23	What are the essential checks to be carried out on a kick-over tool prior to running it into the well? Name five.	b, c
24	What pulling tool is used in conjunction with the kick-over tool to pull a GLV with BK-2 latch?	b, c
25	How much over-pull is normally sufficient to trip the kick-over tool in the well?	d
26	When closing a SSD using a 42XO positioning tool how would you effect closing of the hydraulic jar after its execution?	d
27	How do you confirm that a SSD is fully closed or open?	e
28	How do you confirm that a GLV, dummy or CIV is properly installed and set in place?	e
29	When do you usually use a surface pressure recorder? Why?	f
30	Do you use the AH depth or the TVD as reference when doing hydrostatic pressure calculations? Why?	g