

# JFE LEARNING MODULE

DIMENSION BID

## TASKSHEET 06 - Basic Well Control

### OBJECTIVES

Upon completion this task you should be able to:

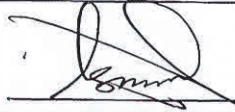
### THEORY

1	Describe the negative impact and effects of a well control incident.	✓
2	Describe what is the meaning of "Blow Out". What can cause it and what are the dangers.	✓
3	Define the term "well integrity management" and explain why this is important.	✓
4	Define the term hydrostatic pressure, formation pressure and fracture pressure, overbalance and under balance pressure.	✓
5	Discuss the differences between an open hole, cased hole and production wells with respect to well head pressure.	✓
6	Discuss the principle of the Mud systems used when drilling wells. Describe what is meant by overbalanced and under balanced and when these would occur.	✓
7	Define the term "barrier" and principle of barrier envelopes.	✓
8	Explain the principles of different barrier types.	✓
9	Define the terms "primary" and "secondary" barriers.	✓
10	Understand testing barriers concept: Inflow test, pressure test and why integrity testing is used.	✓
11	Explain the principles of the different well control methods.	✓
12	Describe how hydrates form and how to prevent them.	✓
13	Explain about Well Shut In and needs for operation.	✓
14	Define the management of operation regarding the well control.	✓

Grade: \_\_\_\_\_

**A**

Supervisor  
Signature:



### PRACTICAL

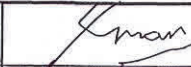

1	Perform calculation for Hydrostatic Pressure, Fracture Pressure, Formation Pressure.	✓
2	Perform calculation to determine underbalance and overbalance pressure of the well.	✓
3	Pass written assessment for Module 6. Total Marks = <u>100</u> %	✓

Grade: \_\_\_\_\_

Supervisor  
Signature:



### COMMENTS BY SUPERVISOR

Name:	NUR IMAN ABDUL RAZAK	Signature:		Date:	22/8/2022
Manager's Name:	FARIS MOHD. FIRDAUS	Manager Signature:		Date:	04/12/23