

## 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:

100%

Supervisor  
Signature:


## PRACTICAL

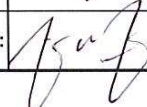
|   |                                                                                      |   |
|---|--------------------------------------------------------------------------------------|---|
| 1 | Perform calculation for Hydrostatic Pressure, Fracture Pressure, Formation Pressure. | / |
| 2 | Perform calculation to determine underbalance and overbalance pressure of the well.  | / |
| 3 | Pass written assessment for Module 6. Total Marks = _____%                           | / |

Grade:

100%

Supervisor  
Signature:


## COMMENTS BY SUPERVISOR

|                 |                  |                    |                                                                                     |       |           |
|-----------------|------------------|--------------------|-------------------------------------------------------------------------------------|-------|-----------|
| Name:           | Farhan Amran     | Signature:         |  | Date: |           |
| Manager's Name: | Faris M. Firdaus | Manager Signature: |  | Date: | 04/12/27. |