



Plug & Abandonment Awareness Course

Course Highlights:

This 2-day Plug & Abandonment Awareness course aims to provide participants with an enhanced understanding of the principles, methodologies, practicalities and risks associated with well abandonment.

The course offers a review of the underlying principles of well abandonment before considering the concepts involved in a temporary abandonment (suspension) and subsequent abandonment requirements needed for an increasing inventory of ageing wells.

Course Delivery:

The course is delivered over 2 days and is taught through presentation of a series of interactive lectures, case studies, worked examples, knowledge assessments, group discussion on case study & exercises.

Learning Objectives:

At the end of this course, participants will be able to:

- Fully appreciate how 'human factors' can impact on well abandonment integrity
- Understand the differences between permanent abandonment and temporary abandonment (suspension)
- Describe the governing principles, techniques and processes of well abandonment
- Describe the minimum requirement under the PETRONAS Procedures & Guidelines for Upstream Activities (PPGUA) latest revision 4.1
- Describe the relevant associated risks and their issues such as materials placement, fluid degradation, corrosion and mud contamination
- Explain the need for and the principles of well barriers including materials used, number of barriers and physical requirements
- Understand the principles of barrier verification and testing
- Know the risks and mitigation involved in well abandonment
- Case Study RV-1: Learners will be able to design a plug & abandonment plan, putting together the PPGUA latest requirements.

Course Audience:

This course will benefit staff involved in drilling and workover, with 2-3 years of experience in the design of wells and/or drilling or workover operations.

It is recommended for the following staff to attend:

- Well Engineers
- Drilling Engineers
- Drilling Supervisors
- Workover Supervisors
- Well decommissioning Engineers

* Prior experience in Plug & Abandonment is not required.



Stuck Pipe & Prevention Course

Course Highlights:

The aim of this training is to increase employee awareness of the impact and negative effects of a stuck pipe incident and to provide the knowledge necessary for good prevention but also to have the skills to intervene, supervise and properly plan stuck pipe operations in a well.

The course participants will learn that predicting a stuck-pipe situation can actually be made whilst the stuck event is just about to take place and what warning signs to look out for. The course will also cover the precautions to be taken to avoid stuck-pipe situations as well as examples of freeing methods to solve such problems.

Course Delivery:

The course is delivered over 2 days and is taught through presentation of a series of interactive lectures, case studies, worked examples, knowledge assessments, group discussion & case study exercises.

Course Content:

- Conditions that can cause stuck-pipe
- Stuck-pipe terminology
- Indicators
- How to predict stuck-pipe using trend analysis
- The 3 main stuck mechanisms
- The solutions to freeing the stuck pipe based on the respective stuck mechanisms
- Remedies to avoid stuck-pipe
- The human factor
- Handover between crews to avoid stuck-pipe
- Solution examples when the pipe is stuck
- Finding solutions by means of group work exercises
- Lessons learnt from actual stuck-pipe cases

Course Audience:

This training is for all personnel involved in drilling or workover operations: engineers, supervisors, driller, assistant driller and operators involved in the execution, supervision or planning of operations on offshore and onshore oil/gas wells.