

Training - Well Integrity



WELINT-EN-P



Face-to-face only



4 days

This course provides an introduction to the fundamentals of Well Integrity. It covers the notions of well barrier envelopes and well barrier elements from design until abandonment of a well and their validation. It will describe how to pro-actively monitor and manage well integrity through dedicated tools, structures, organizations and techniques. Reference industry standards as well as Plug and Abandonment principles are also presented. Various real cases and calculations will be used to illustrate the concept and engineering aspect of well integrity.

Level

Skilled

Public

Drilling, completion and production engineers and technicians

Objectives

Attendees will be able to implement the following skills:

- Recognize the importance and the concepts of well integrity
- Understand the notion of well barriers and the importance of well monitoring
- Identify critical elements
- Explain typical failures and their mitigations
- Understand the well integrity structure to ensure sound management of well integrity

Pedagogical & technical resources

- Videos and animations showing how equipment work
- Practical exercises and knowledge assessment

Assessment of achievements

- Trainees are assessed throughout the training through practical application phases and interactions with the trainer
- A final on-the-spot evaluation may also be carried out at the end of the course and/or at the end of each module using tests designed to verify the learners' understanding and assimilation of the knowledge linked to the training objectives

Prerequisites

No prerequisites are necessary to follow this course

Responsible

IFP Training instructors, with expertise in the field and trained in modern teaching methods adapted to the specific needs of learners from the professional world

Program

WELL INTEGRITY & WELL LIFE CYCLE

1 day

Course objective.

What is well integrity, why is it so important.
Well life cycle: from cradle to grave, build and safeguard.
Typical well architecture, well barrier, well barrier elements, safety critical elements.

WELL BARRIER, LEAKS, STANDARDS

1 day

Detailed review of WBE (subsurface, surface), selection and validation.
Cement evaluation (sonic and ultrasonic logs).
Leaks types and leak rates, calculations.
Corrosion, erosion and their effects, degradation.

OPERATIONAL PHASE & MONITORING

1 day

Introduction to International Standards.
Annulus monitoring and basis of calculations (MAASP, MAWOP, MINAP).
Trend analysis.
Case study - Exercises - Sustained casing pressure.

WELL INTEGRITY ORGANIZATION

1 day

Well failure model, mitigation plans, risk assessment, ALARP principles.
Well Integrity management system.
Hand overs and documentation.

P&A & DECOMMISSIONING

1 day

Temporary abandonment and permanent abandonment.
Fundamentals and techniques.
Real case study.

Sessions

Pau - From 06/15/2026 to 06/19/2026

4320 €/HT

Pau - From 07/06/2026 to 07/10/2026

4320 €/HT

To French entities : IFP Training is referenced to DataDock ; you may contact your OPCO about potential funding.
Please contact our disabled persons referent to check the accessibility of this training program : referent.handicap@ifptraining.com