

Training - WELLCAT



WELLCAT-EN-P



Face-to-face only



5 days

This course enables participants to effectively use WellCat in their daily engineering activities to perform thermal and stress analyses, evaluate tubular integrity, and support well design and operational decisions

Level

Skilled

Public

Drilling and completion professionals seeking to strengthen their well design expertise and gain hands-on experience with WellCat

Objectives

Attendees will be able to implement the following skills:

- Use WellCat in their daily engineering activities to perform thermal and stress analyses
- Evaluate tubular integrity
- Support well design and operational decisions

Pedagogical & technical resources

- Model data in WellCat to support tubular design and integrity analysis.
- Perform and interpret thermal simulations for drilling and production operations
- Configure and execute stress analysis using relevant load cases and initial conditions
- Conduct tubing stress analyses, including packer configuration and completion design considerations
- Evaluate tubular integrity and generate WellCat reports to support engineering decisions.

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

Participants should have completed the Well Architecture module or have a good understanding of the well design process

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

WELLCAT BASICS AND MODELLING OF OPERATIONS IN THE DRILL MODULE

1.5 days

Basic Well information:

- The wellbore menu.
- Inventories; how to add new items.
- See how well data entry fields relate to reality.
- Define a well from scratch or use another as starting point?

The Drill Module – Thermal simulations for drilling operations:

- Learn how to use drilling simulated temperatures to properly define initial conditions for casing strings, focus on critical production and intermediate strings.
- Define conditions for several thermal simulations.
- Continue Running the program; review all results.
- Discuss and interpret results.

MODELING OF OPERATIONS IN PROD MODULE

0.5 day

The Prod module – Thermal simulations for Production Operations:

- Define conditions for several thermal simulations.
- Run the program; review all available results.
- Discuss and interpret results.

PERFORMING STRESS ANALYSES

1 day

The Casing Module – Stress analysis for Casing strings:

- Define conditions for stress analysis of the Production Casing; Initial Conditions and Load Cases.
- Including Point Stresses from the Tubing Stress analysis.
- Run the program and review all available results.
- Discuss and interpret results.

STRESS ANALYSES IN TUBING MODULE

1.5 days

Packer definition in WellCat.

Define conditions for a stress analysis of Tubing; Initial Conditions and Load Cases.

- Run the program and review all available results.
- Discuss and interpret results.
- Tubing & Completion design considerations – sensitivity with the packer options.

BRIEF DISCUSSION ON MULTI-STRING MODULE

0.25 day

PRINTING WELLCAT REPORTS

0.25 day

What reports are available and how to print them.

How to create new reports.

Sessions

Pau - From 11/16/2026 to 11/20/2026

6890 €/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