

## Formation - WELLCAT



WELLCAT-EN-P



Présentiel



5 jours

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

### Niveau

Perfectionnement

### Public

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

### Objectifs

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

### Pédagogie & ressources techniques

- 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.

### Évaluation des acquis

- 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

### Prérequis

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

### Responsable

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

## Programme

### 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** - Du 16/11/2026 au 20/11/2026

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](mailto:referent.handicap@ifptraining.com)