



## Course: Tubing Design and Stress Analysis (code: TR-ENG-COMPL-002)

### Course Overview:

The Tubing Design and Stress Analysis training is suitable for engineers, supervisors and students with no or minimum experience. The course will give understanding of how to select tubing for different type of wells, what loads will be exerted on completion tubing and jewelry during well life.

### Course Outcome:

Upon completion the course you will gain knowledge about how to select tubing to withstand all the loads during well life, how to perform hand calculations. Well Cat software will be used to perform tubing stress analysis.

### Course Highlight:

Combination of theoretical knowledge with practical exercises will help students better understand the subject.

*Proficiency Level: Fundamental*

## COURSE CONTENT

### Day 1:

#### ➤ Tubing Selection and Design

- Tubing Metallurgy
- Stress vs Strain
- Tubing Limitations and Safety Factors
- API and ISO overview.

#### ➤ Loads Description and understanding

- Burst, Collapse, Axial and Tri-Axial
- Factor of Temperature
- Completion jewelry behavior under different load conditions.

#### ➤ Tubing Stress Analysis Software Packages

- Review current software packages used in different companies.
- Limitation and advantages.

### Day 2:

#### ➤ Tubing Stress Analysis Exercise (Well Cat)

- Perform Class exercise for Producer and Injector wells.
- Understand and Analyze results.
- Discuss Tubing Movement and mitigations.
- Packer Loads.



## WHO SHOULD ATTEND

Completions Engineer

Drilling Engineer

Workover/ Intervention Engineer

Completions Supervisor

Drilling Supervisor

Subsurface Engineer (Petroleum, Reservoir, Geologist)

Students with major in Petroleum Engineering

## DURATION

- Course will take 1 day (~6 hours)
- Upon Requirement the course can be made in two days (4hrs each day)

## TRAINING STRUCTURE

- **Online:** Zoom Application will be used to deliver the training.
- **Classroom** (recommended): Physical Classroom training will be hold at the properly equipped classroom.
- **In-house:** Training can be performed at the client facility.

## COST

- **Online Training:** Cost per student: contact for more details.
- **Classroom Training:** Cost per student: contact for more details.
- **In-house Training:** to be agreed between parties.

*\*Corporate cost will be discussed based on number of students.*

## PAYMENT METHOD

### ➤ Bank Transfer

- Full Name:
- Bank Name
- Account Number:
- IBAN:
- SWIFT

### ➤ Online Payment

- Use book now button to book the training.

### ➤ **MILLI ON** (for Azerbaijan citizens only):

- Full Name: Farid Babayev
- Card Number 0000 0000 0000 0000
- Expiry Date:

## CANCELLATION AND REFUND

We understand that unforeseen circumstances may arise, and plans can change. Here is our cancellation and refund policy for your reference:

### ➤ **Cancellation:**

- Cancellation requests made 14 days or more before the training start date will be processed free of charge.
- Cancellation requests made within 14 days of the training start date will incur a 50% refund.

### ➤ **No Refund:**

- No refund will be provided for cancellations made 1 day before the training start date.

### ➤ **Rescheduling:**

- Students have the option to reschedule the training up to 3 days before the training start date without incurring any additional charges.
- In the case of emergencies, the company reserves the right to approve rescheduling for free.

We value your commitment to professional development and strive to accommodate changes whenever possible. Please contact our support team at [training@nexusofs.com] for assistance or to submit your rescheduling request. Thank you for your understanding.

## FAQ

➤ **Certification:**

Certificates will be granted at the end of the training:

➤ **Materials:**

Materials will be provided in digital format (paper free)

➤ **Maximum Students per class:**

The number of students per class will be limited to 10 (for classroom option) in order to make the training more effective.

➤ **Breaks and Lunch:**

Breaks and lunch will be agreed with the class.

➤ **What to bring:**

Papers and pens will be provided by the training provider (for classroom option)

➤ **Training Start Time:**

Students are asked to attend the venue 30mins before the start time for registration.

For any additional details please to contact us.