

# Dynamic Piping Stress Analysis CAESAR II

July 4 - 8  
2021

## COURSE OBJECTIVE

This course (workshop) is crafted for engineers and specialists seeking further knowledge on the analysis of piping system under dynamic load conditions using CAESAR II. The will be able to apply their skills in CAESAR II to solve and analyze dynamics stress problems.

This course combines understanding of piping vibration through extensive applications of the software to actual field history cases and exercises. It will enhance the analytical capability for piping stress and flexibility analysis at dynamic load conditions.

## WHO SHOULD ATTEND

- Experience in CAESAR II is required
- Pipe Stress Engineers
- Vibration Specialists with CAESAR II knowledge
- Piping Engineers
- Design Engineers
- Reliability Engineers involved in O&G and Petrochemicals.

## COURSE OUTLINE

- Introduction to Dynamic Loading and
- CAESAR II Features
- Applications of Modal Analysis
- Overview of piping vibration
- Harmonic Analysis with Applications
- Time History Analysis
- Spectrum Analysis
- Applications of Vortex Shedding
- Relief Valve Piping Analysis

## CONTACT INFORMATION

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## Muhsen AlSannaa

He has been teaching stress analysis since 1994 for ASME local chapter, Saudi Aramco and local community.

The instructor is an experienced piping & pipelines consultant with over 35 years. He was involved in solving various field problems in his area of expertise, reviewing design projects, performing piping stress analysis. He has developed standards, research concepts & SOW. For many years, he was a leader for engineers & designers.

Time	Activities
08:00 - 12:15	Morning session 1
12:15 - 13:30	Prayer & Luncheon
13:30 - 17:00	Afternoon session 1