

# Dynamic Piping Stress Analysis

## CAESAR II

October 24 - 28  
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.

### Muhsen AlSannaa

The instructor is an experienced piping & pipelines consultant with over **37** years solving various field problems in his area of expertise, reviewing design projects, performing piping stress analysis. He has developed standards, research concepts & SOW. He was a leader for engineers & designers.

He has been teaching this course since 1994 for ASME Chapter, Saudi Aramco & local engineering community.

<https://www.linkedin.com/in/muhsen-sannaa/>

### COURSE OUTLINE

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

### 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.



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