

# Piping Systems Vibration Solutions



## COURSE OBJECTIVE

The objective of this 40-hours course is to provide excellent understanding as well appreciation of vibration phenomena in piping systems.

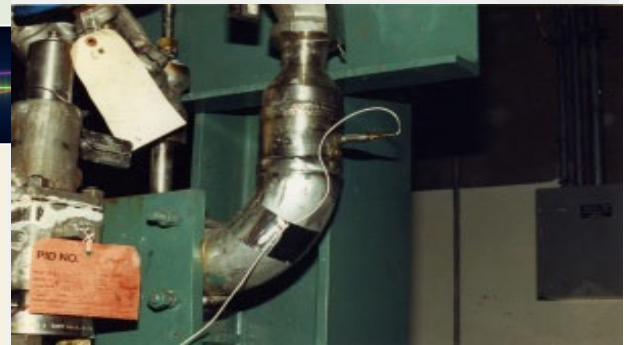
This course effectively combines the understanding of vibration in piping systems with actual field case histories. The applicable vibration concept and methodology for solving the problem are presented in very demonstrated via case histories to ensure full understanding of the material.

The course primary target is to ensure reliable design and safe operation of O&G facilities.

## WHO SHOULD ATTEND

This course will be beneficial for:

- Piping design engineers
- Process engineers
- Reliability Engineers
- Operation Engineers
- Experienced vibration technicians
- Engineers involved in Petrochemicals and O&G.



## Muhsen AlSannaa

The instructor is an experienced piping & pipelines consultant with over **35** 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.

Muhsen has a US registered patent "Non-Shedding Strainer" that permanently resolved chronic vibration at compressor suction piping.

## COURSE OUTLINE

- ~ Vibration Fundamentals
- ~ Modal Analysis for vibration
- ~ Measurements and Criteria
- ~ System Response & Resonance
- ~ Flow Induced Vibration
- ~ Vibration around Control Valves
- ~ Pulsating Vibration
- ~ Vibration due to Vortex Shedding
- ~ High Frequency Vibration
- ~ Acoustic Induced Vibration

## CONTACT INFORMATION

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