

# Engineering Fundamentals of Piping & Pipelines

(ASME B 31.3, B31.4 & B31.8)



**Weekend & Evenings  
Three Weeks**

**September 5<sup>th</sup> to 26<sup>th</sup>  
2020**

## COURSE OBJECTIVE

Upon completion of the course, participant should acquire good knowledge on design, construction and inspection of piping systems, which include process plant piping as well pipeline. The course provides emphasis on understanding the ASME Codes (B 31.3, 31.4, 31.8, 16.5 & B16.47).

## 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.

## Course Outline

- ~ Piping Systems Types
- ~ Applicable Codes & Standards
- ~ Material Selection for Piping Systems
- ~ Manufacturing of Line Pipe
- ~ Pipe Wall Thickness Calculations (ASME)
- ~ Flanges-Gaskets Types & Selection
- ~ Valves Types, Manufacturing & Testing
- ~ Control Valves Types & Function
- ~ Plant Piping Layout
- ~ Construction of Process Piping
- ~ Inspection and Pressure Testing
- ~ Pipeline Design and Construction
- ~ Hot Tapping for Piping and Pipeline
- ~ Typical Field Problems in Piping
- ~ Piping Vibration Types & Causes

## CONTACT INFORMATION

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## WHO SHOULD ATTEND

- Mechanical Engr. (Fresh graduate)
- Piping Design Engineers.
- Inspection Engineers & Technician
- Process Engineers
- Construction Engineers
- Project Engineers
- Operation Engineers
- Piping Designers
- Engineers of Petrochemicals & O&G.

Day	Week 1	Week 2	Week 3
<b>Saturday</b> 8:30 AM - 5:00 PM	Sep. 5	Sep. 12	Sep. 19 & Sep. 26
<b>Monday</b> 6:00 PM - 9:00 PM	Sep. 7	Sep. 14	Sep. 21
<b>Tuesday</b> 6:00 PM - 9:00 PM	Sep. 8	Sep. 15	Sep. 22
<b>Wednesday</b> 6:00 PM - 9:00 PM	Sep. 9	Sep. 16	Sep. 23

## Location

**CompuSOFT Training Center - Dammam**

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