

# Pipelines Concept to Operation

## (ASME B31.4 & 8)

**Five Days Session**

**November 22 - 26  
2020**



### COURSE OBJECTIVE

This course will provide various details on pipelines from the conceptual design to the end goal of its operation. The course is aligned with the primary ASME B31.4 & B31.8 where various important elements of the Codes will be explained as design criteria, pipe wall thickness calculations. In addition, design, construction & inspection. Participants are expected to practice group class exercises which are major enablers to achieve the goals.

### 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.

Time	Activity
07:30 - 08:00	Registration & breakfast
08:00 - 10:00	Morning session 1
10:00 - 10:15	Coffee Break
10:15 - 12:15	Morning session 2
12:15 - 13:30	Prayer & Luncheon
13:30 - 15:00	Afternoon session 1
15:00 - 15:15	Coffee Break
15:15 - 17:00	Afternoon session 2

### CONTACT INFORMATION

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### WHO SHOULD ATTEND

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

### Course Outline

- ~ Why Pipelines are Required
- ~ ASME B 31.4 & 8 Scope & Structure
- ~ Hydraulic Concepts for Pipelines
- ~ Design Stages for Pipelines
- ~ Pipelines Right of Way
- ~ Pipe Wall Thickness Calculations
- ~ Components Thickness Calculations
- ~ Pipeline Construction Types
- ~ Requirements for Welding
- ~ Construction in Progress
- ~ Pipeline Pressure Testing
- ~ Pipelines Operation
- ~ Maintenance activities:
  - ~ Pipeline Scraping
  - ~ On Stream In Line Inspection
  - ~ Pipeline Slewing
  - ~ Hot Tapping
- ~ Group Exercise to Design a Pipeline

Accredited by Technical and Vocational Training Corporation

Location  
Hotel – AL-Khobar - KSA

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