



**ElixirPro Engineering Solutions Pvt. Ltd.**  
**(MSME & ISO Certified Company)**

Leading Provider of Engineering Services/ Trainings



Classroom Based  
Courses +  
Online Live Classes

**Batches Starts 1<sup>st</sup> Week of Every Month**

**@ Hyderabad**

## **Piping Design & Engineering**

Developed in the back drop ASME B 31.3, 31.1, 31.4, 31.8 etc.,

This course outlines the sequence in which various piping design engineering activities such as pipe sizing, pipe wall thickness calculation, pipe support design, piping classes and Specifications, requisitioning, vendor document review, stress analysis, overall plant layout/ plot plan, equipment lay out drawing, models etc. are carried out for an EPIC project in a design office.

For More Information Please Call or WhatsApp us on - + 91 9381257763 / 9676686102  
or Email at [info@elixirproengg.com](mailto:info@elixirproengg.com)

ElixirPro Learning & Development is recognized as a leader in training for engineers and technical professionals. Our specialist courses are tailored to the needs of industry professionals and combine academic rigor with applications to practical situations.

We provide educational opportunities covering numerous engineering and technical disciplines and offer them in many different ways (platforms) both on and offline. Our faculties are experts in their respective fields with some of them having extensive teaching experience along with the long professional working experience.

ElixirPro Learning & Development programs follows high standards and follow process as per ISO 9001-2015. ElixirPro Learning & Development programs are in the process of getting accreditation from internationally body.

From college students and early-career engineers to project managers, corporate executives, ElixirPro provides courses which are beneficial and for all levels and employable locally and internationally.

ElixirPro will provide opportunities Internship/Apprenticeship to our bright students in-house and also provide placement assistance with our associates in India and abroad.

We have successfully placed our trainees in India and abroad with reputed companies.

## COURSE CONTENT

### Basic Pipe System Design

- Piping Terminology
- Piping Components (Pipe, Fittings, Flanges, Valves & Specialties)
- Piping Material Selection
- Applicable Codes & Standards
- Pipe wall thickness calculation
- Pressure Drop Calculations & Pump Sizing
- Calculation of Support Span

### Pipeline Design

- Introduction to Pipeline Design
- Different types of Pipeline systems (oil, water & gas)
- Preparation pipeline routing and details drawings

### Sub-Sea Pipeline Design (Water)

- Introduction to Subsea Pipeline Design (water)
- Different types of Intake Pipelines
- Preparation pipeline routing and details drawings
- Preparation of basic p & Id and Interpretation
- Preparation of Plant Layout
- Preparation of Piping GA / Layout (Pipe rack, Yard piping, Utility Piping & Process Piping)
- Preparation of Isometrics
- Preparation of Material Take-Off
- Preparation of Specifications and Data Sheets

### 3D Modeling

- Training on PDMS/SP3D/CADWORX (Piping Modeling)
- NAVISWORKS

### What are the benefits of Piping Design and Engineering course?

- Piping Engineers are required by almost all heavy scale industries (Oil and Gas, Power, Petrochemical Plants Fertilizers Plants water and waste water industry). They are required for design engineering & cost estimation etc.

### Typical job titles

- Piping Design Engineer/Lead Piping Design Engineer
- Piping Material Engineer
- Pipeline Engineer
- Plumbing Engineer
- Piping Designer Etc.,

### COURSE CONTENT

#### Stress Analysis

- Basics of Stress Analysis Theory
- CAESAR II (Above ground & Underground modeling & Analysis)
- Interpretation and review of stress reports.



We empower our students to work hard and reach their potential.

With

1. Communication Skills
2. Business Correspondence
3. Job Interview Skills