

**Eligibility** : ITI/ Mechanical Draughtsman (Fresh/Experienced)

### **SYLLABUS -**

#### **Training Program Syllabus:**

- Introduction to industry.
- Role of Mechanical Draftsman in various fields of industry.
- Development of Drafting Skills and Basics of engineering drawing.
- Guidelines of various Process plants and their drafting requirements.
- Fundamentals and concepts of Piping Design and Drafting.
- Preparation of Isometric drawings and Bill of Material.
- Basics of Plot Plan development.
- Detailing of Pipe Rack and Yard piping.
- Guidelines of equipment used in Process plant.
- Development of Equipment & Piping Layouts.
- Preparation of Nozzle Orientation.
- Guidelines to preparation of As Built Drawings.
- Overview of International Codes and Standards.
- Computer Aided Drafting.
- Basic Information about Welding, Inspection & Testing.

#### **AutoCAD Piping - Basic Module**

- Basics of AutoCAD
- Drawing sheet drafting including layers. AO / AI /A2 / A3 /A4
- Drawing object - 2D with dimensions.

#### **Piping Module - I**

- P & ID Preparation
- Drafting of piping elements - 2 D
- Drafting of pump suction & discharge line with dimensioning - 2D
- Drafting of control station assy with dimensioning - 2D
- Drafting of pump suction isometrics with dimensioning
- Drafting of pump discharge isometrics
- Drafting of control station isometric
- Drafting of Steam Trap Assy (Drip leg) 130
- Pipe rack drafting - 2D
- Tank Farm Equipment layout 2D
- Tank Farm Nozzle Orientation 2D
- Vertical, Horizontal & Heat Exchanger piping

#### **Piping Module — II**

- Distillation column — Equipment layout
- Distillation column — Piping layout
- Distillation column — Isometrics
- Distillation column — Nozzle Orientation
- Auto CAD - 3D
- Support Drawing

**SITE VISIT WILL BE ARRANGED AT INDUSTRIAL PLANT.**

**Note: SIT reserves right to change the Training Content at any time as per the current job requirement.**

#### **Key Benefits of Training Program:**

- ❖ Exposure to working culture of Engineering, Procurement and Construction Companies.
- ❖ Thorough Knowledge provided to understand the project activities.

- ❖ Introduction of interactive methods within the departments.
- ❖ Understanding of Deliverables to function smoothly and quality output.
- ❖ Training of relevant soft-skills helps to improve attitude and efficiency.
- ❖ Acquire the knowledge of Advance technologies used currently in the Industry.
- ❖ Enrich the knowledge of International codes and standards for perfection in design.
- ❖ Enhance the knowledge of Current engineering practices used.
- ❖ Introduction to relevant advance software (wherever applicable).
- ❖ Training in Personal Development to enhance the communication skills (wherever applicable).

After successful completion of Training Program you will have opportunity to work in EPC sector as Draftsman.

SIT conducts various Training programs in Following Disciplines. (Full time / Week End Batches / Part Time Corporate Batches)

- ❖ Piping Engineering
- ❖ Mechanical Design of Process Equipments
- ❖ Process Engineering
- ❖ Advance Pipe Stress Analysis
- ❖ Process Instrumentation & Control
- ❖ Water & Waste Water Engineering
- ❖ Air Conditioning System Design (HVAC)
- ❖ Structural Engineering
- ❖ Electrical System Design
- ❖ Engineering Design and Drafting
- ❖ Health, Safety & Environment in Construction
- ❖ Piping Design and Drafting
- ❖ HVAC Design & Drafting
- ❖ The Art of Developing a Balanced Personality
- ❖ Rotating Equipment
- ❖ Civil/Structural Design & Drafting
- ❖ MEP (Mechanical , Electrical & Plumbing)

***Together We Will Bring New Dimensions To Engineering Industry***

**Suvidya Institute of Technology Pvt. Ltd.**

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