

Eligibility : Degree/ Diploma in Mechanical/ Production Engg.

SYLLABUS -

• **Introduction to:**

Role of Process Equipment designer in various fields,
Industry functioning and plot overview,
Basic process requirement of plants/projects
Importance of codes and standards and their applications

• **Documents study:**

P&ID,
Process Data Sheet,
PFD and other documents used for designing,
Vendor data, its checking & use in design.
Other various inputs

• **Selection of materials required for various services**

• **To understand pressure part calculations**

• **Preparation of:**

Mechanical data sheets of process equipment
Bill of Material at various stages

• **Basic Introduction of:**

Piping components used in equipment.
Construction procedure of process equipment
Welding, Inspection and method of testing.

• **Mechanical design of Process Equipments (Vessels, Reactors, Heat Exchanger, Distillation Columns etc.)**

• **Overview of Accessories mounted on equipment like drip pipe sensors Overview of Chimney Design**

• **Overview of Equipment Design Software like PV Elite**

• **MDMT (Minimum Design Metal Temperature)**

• **Overview of NDT**

• **Overview of Rotary Equipments**

• **Overview of Piping**

• **Site Visit will be arranged at industrial plant**

Basic subject preparation required before joining this Training Program.

- Strength of Material
- Applied Mechanics
- Trigonometry
- Engineering Drawing
- Introduction to Physical Metallurgy

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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 advanced software (wherever applicable).
- ❖ Training in Personal Development to enhance communication skills (wherever applicable).

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

- | | | |
|-----------------------------------------|------------------------------------|---------------------|
| ● Design Engineer | ● Construction Engineer | ● Project Engineer |
| ● Inspection and Testing Engineer | ● Site Engineer | ● Erection Engineer |
| ● Installation & Commissioning Engineer | ● Maintenance & Operation Engineer | ● QA/ QC Engineer |

SIT conducts various Training programs in Following Disciplines. (Full time / Weekend 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
- ❖ 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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