

**Eligibility** : Degree/ Diploma in Civil/ Structural Engineering

### **SYLLABUS -**

- **Introduction to:**  
Industry and industrial systems  
e.g. Refinery, Petrochemical, Chemical, Organic Pharmaceutical etc.  
Basic structural requirement of the plants/projects,  
Role of Civil engineers in various fields .
- **Inputs from various departments and output.**
- **Concept of Analysis and Loading Calculations.**
- **Concrete Structure Design**  
Steel Structure Design
- **Detailed Analysis & design of:**  
Pipe Racks and Sleepers,  
Static equipment foundation design,  
Rotating equipment foundation (Block & frame type),  
Equipment Supporting Structures (Technological Structures),  
Plant Buildings such as Compressor House, Control Building, Substation, Pump house, etc.  
Non-plant buildings such as Admin building, Warehouse, Workshop.
- **Selection of various steel.**
- **Relevant Standards/Codes, their importance and applications.**
- **General Civil Works**  
Roads, Drains, Viz.: Contaminated rain water sewer & oily water sewer  
Paving Dyke wall, Tank Farm Area, Boundary wall, Fence & gate, Local support & platforms, etc.
- **Special Facilities**  
Cooling Tower, Flare Stack, Chimney.
- **Computer Aided Analysis and Design (with concept of STAAD software).**
- **Study of other department documents used for designing of plants.**
- **Preparation of Bill of Material at various stages.**

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

<b>Basic subject preparation required before joining this Training Program.</b> <ul style="list-style-type: none"> <li>• Structural Analysis</li> <li>• Design of Concrete Structures</li> <li>• Design of Steel Structures</li> </ul>
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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 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:**

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|---|------------------------------------|---------------------|
| ● 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 / 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
- ❖ 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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