

**Eligibility** : Degree/ Diploma in Instrumentation Engineering

**Last date of Admission** : 1<sup>st</sup> November, 2026.

## **SYLLABUS -**

- **Introduction to:**  
Instrumentation Engineering and role of Instrumentation engineer  
Industry overview and scope  
Instrumentation fundamentals
- **Detailed study of:**  
Different types of instrument for pressure, temperature, flow, level, control valves etc.  
DCS, PLC & SCADA  
Fire and gas system  
Flow calculation and control sizing  
P& ID diagram  
Interlocking Diagram  
FAT procedure  
Instrument selection
- **Standards & codes for instrumentation**
- **Instrument Procurement and Inspection**
- **PLC programming ( Ladder Diagram) of shutdown logic for emergency shutdown system**
- **SCADA programming.**
- **Detail design engineering:** Instrument Design basis, Document Numbering System, Instrument index, data sheets, specification sheets, hook up diagrams, loop diagrams, Junction box schedule, Cable schedule, Plot plan layout for - Instruments, junction boxes, cable trays, control room layout and PIB layout, Gas detector Location layout, Instrument Air Supply Distribution Details, Instrument Air manifolds location Layout, Earthing and grounding systems, DCS and PLC architecture, Instrument Point Database –DCS/ PLC, Instrument and Electrical Interface.
- **Documentation & Technical bid evaluation**

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

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

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## **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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