



Centre for Industrial Solution and Advanced Training

TRAINING PROGRAM ON PLC ENGINEERING, & SCADA

28-31 Jan 2019 Pune, India





(Technical- Electrical/Mechanical/Automation/Chemical, Behavioral & Soft Skill, Safety, Business Excellence, Safety & Energy Audit)

Centre For Industrial Solution and Advanced Training

AN ISO 9001:2015 CERTIFIED

“A complete Training Solution Under One roof”

4 Days Training program on

PLC Engineering and SCADA

Basics, Operation and Maintenance & Troubleshooting

(28-31 Jan 2019 Pune)

Objectives of the Program

- To provide understanding of PLC & SCADA hardware components and their working principle
- To train the participants on Selection, Installation and Commissioning of PLC, SCADA and associated hardware and software.
- Explain execution of Logical, Arithmetic and Analog Functions through PLC.
- Develop participant for carrying out modification in existing program of their Plant / Machine as per requirement
- Enable participants to develop new PLC Program for typical plant applications
- To enhance troubleshooting and faultfinding skills in PLC based automation systems.

Who Should Attend

Instrumentation, Electrical, Mechanical and Process Engineers, Project Engineers, Maintenance Engineers and Supervisors interested to work in the field of SCADA, DCS/ Automation and Process Control. The course will also definitely be beneficial for the all the other department people concerned with the plant operations, production, maintenance and safety. It could be also useful for the procurement and quality personnel.

Course Contents:

Module 1

- PLC Block Diagram, Hardware Components, Architectures and Wiring
- Introduction to PLC programming (General/product Specific/AB/Siemens/GE)
- PLC Programming Languages overview
- PLC hardware configuration and addressing
- PLC Application Development
- PLC instructions – Basic and Advanced
- PLC Engineering & Troubleshooting

Module 2 (GE/AB/ Siemens will be covered as per participants requirement)

- Introduction to SCADA & HMI
- SCADA Features
- SCADA Configuration & Development of front end graphics
- PLC and SCADA interface

Web: www.cisat.co.in; Email: vikas@cisat.co.in; Contact: +91- 7709012815 (Branches: Thane/Pune/Nagpur/Bhilai/Wardha)

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- Alarms & Trends (Real-time & Historical)
- Security & Access Control
- Data logging & Report Generation
- Introduction to HMI- basics

Prerequisite:

Basic knowledge of Electrical Engineering and experience in Maintenance will be helpful.

Maintenance Practices & Exercise (Hands ON):

Programming, Upload, Download, Restore, Backup, Data Watch, Data monitor, Fault tables, temporary IP address setting, Module insertion and removal, debugging communication, fault indicators, battery replacement, cable testing, forcing of inputs and outputs, I/O Wiring, I/O Testing and troubleshooting, Documentation (I/O list, Loop wiring diagram, panel wiring diagrams,architecture, test procedures, reports writing), Alarms & Trends.

Certification:

Every successful participant will be awarded a course completion certificate.

Delivery Methodology:

- Introduction and Objective Setting
- Pre and Post Test,
- Knowledge Presentations: 100% PRACTICAL AND HANDS ON,
- Assignments & Exercise,
- Model display,
- Hands on Practical
- Feedback and Assessment
- Discussion and Interaction
- Delivery 10:00 AM to 17:30 PM

Organisers

This specialised course is launched by CISAT in collaboration with SAN Techno Mentors Pvt. Ltd. Pune.

CISAT (Centre for Industrial Solution & Advanced Training), Nagpur

CISAT is a group of Industrial Experts with experience from diversified fields and passion of teaching from various fields such as Electrical, Mechanical, Instrumentation & Process Control and Computer/IT from Power, Aluminium, Steel, Oil and Cement Industries.

CISAT delivers various services, consultancy & customized trainings to employees of many esteemed corporates.

CISAT impart quality in knowledge sharing to the Employees of Corporate at all levels on various topics

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SAN Techno Mentors Pvt. Ltd. Pune

SAN Techno Mentors Pvt. Ltd. is managed by a group of technocrats (COEP and IIT Bombay alumni) with long years of professional experience in diverse industry verticals. It is focused on providing Value Engineering Services by “Training”, “Mentoring” and “Consultancy” for “Building KASH (Knowledge, Attitude, Skills, Habits)” / “Performance Excellence”.

The Executive team set up SAN Techno Mentors to impart technical education to satisfy not only the demands of the industry but also bridge an ongoing gap between academia and industry on the foundation of the knowledge base, international projects experience, industrial contacts and the SAN Group’s brand image of manufacturing of premium products.

SAN Techno Mentors is an outsourced "Training Partner" for premium MNC (USA HQ) in India. It is also a "Training Service Provider" to the same company for EMEA (Europe, Middle East & Africa). **It has also conducted training programmes for Japanese, European, Asian and Arabian professionals in Pune.**

Having a pool of more than 50 eminent Subject Matter Experts (SMEs) with brilliant academic background (from IITs and premium engineering colleges) long industrial experience, and teaching passion, SAN Techno Mentors is in a unique position to provide above services for corporate companies.

Mentor: Mr . Sudhir Panditrao



Education

Bachelor of Engineering: (Instrumentation and Control), College of Engineering Pune, 1985

Master of Engineering: (Instrumentation and Control), College of Engineering Pune, 2003

Specialisation: Process Instrumentation & Control

Professional Experience: OVER 32 YEARS

Profile: Sudhir is the CEO and Director of SAN Techno Mentors Pvt. Ltd.

During his professional career spanning over 31 years, Sudhir has worked in the areas of instrumentation and automation design, detailed engineering, projects, installation and commissioning at site for variety of industry applications. He has also worked as a director for process control and computer peripherals manufacturing company mainly supplying to major automation manufactures. **He has experience of working in the Middle East as a profit centre head** that included international projects, sales and marketing in instrumentation and industrial packaging. He has worked as a consultant to various leading international organizations viz. Tata Honeywell, Eureka Industrial Equipments, Thermax etc.

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His passion for teaching / training goes way back with his association with academic institutions since 1988. He has been a visiting faculty at the Government College of Engineering Pune (COEP) and the Department of Instrumentation Science at the University of Pune. He played a key role in launching and conducting training programmes for industry professionals and students at COEP. His continued passion saw him establish SAN Techno Mentors in 2007 – a company focussed on providing training and consultancy in various engineering areas.

He has worked as an Asst. Professor with one of the leading technical institutes and has published many papers. He is associated with number of institutes as a visiting faculty and is a member of board of studies and postgraduate recognized teacher at University. **He has presented a paper at IEEE Conference on Advance Process Control at Vancouver, Canada in May 2005.**

Sudhir has carried out training in India and abroad in the areas of instrumentation, industrial automation, PLC, DCS, SCADA, advanced process control, automation project engineering etc. for many professionals, students and professors from several leading companies, engineering colleges and institutes.

Sudhir has conducted many training programmes for participants from oil & gas, petrochemical, power, water & waste water industries from India and Middle East including following:

Dubai Electricity & Water Authority (DEWA)
Abu Dhabi Water & Electricity Authority (ADWEA)
Zakum Development Company (ZADCO)
Abu Dhabi Company for Onshore Oil Operation (ADCO)
Kuwait National Petroleum Company (KNPC)
Qatar Petroleum (QP)
Qatar Chemical Company (QCHEM)
Saudi Electricity Company
Larsen & Toubro (L & T)
Reliance Industries Ltd.
Jindal Steel & Power Ltd. (JSPL)
Welspun Corporation
Vedanta Aluminium Ltd.
Thermax

Sudhir has also conducted many Continuing Education Programmes for faculties from many universities and engineering colleges.

Sudhir has been a speaker in many international conferences in his expertise area.

Having worked in both industrial and academic worlds Sudhir has a unique proposition to conduct training for faculty, students and industry professionals.



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Training Facility:

CISAT & SAN Techno Mentors has International Level Training Centre Located in a learning atmosphere at Nagpur & Pune (India) respectively. It is equipped with training facility fully air conditioned, LCD Projector, Audio-Video, White Board and all other necessary infrastructure.

CISAT & SAN Techno Mentors jointly have facilities for conducting hands on practicals including

1. Electrical, Test & Measurement Instruments
2. Electrical Equipments, Motors & Drives, Mechatronics Setup
3. PLC (Allen Bradley, Siemens, GE) & SCADA (GE/Allen Bradley/Siemens)
4. Field Instrumentation (Sensors, Transducers, Meters etc.) & Flow Control Loop
5. Computer Lab with required software support
6. Industry Grade Panels, Electronics Kits for Experiments

Registration Details:

Dates of the programme: 28-31 Jan 2019 at Pune (4 Days).

Participation Fee: Rs. 30000/- Per participant plus all taxes (GST@18%); (The fee includes Course material, Tea, Snacks, and Lunch only)

Payment: ECS/NEFT/DD in favor of “Centre for Industrial Solution and Advanced Training” Payable at Nagpur, Maharashtra, India. Account No: 0509102000003353 Bank: IDBI, Wardha- 442001, MS, India; IFSC Code: IBKL0000509; Swift Code IBKLINBB007; MICR Code 000259000

Venue: SAN Techno Mentors, Aishwarya Sankul, 4th Floor, Kulkarni path, Kothrud, Pune, MH.

For Registration, please contact:

[Vikas- 00-91-8669546332](tel:00-91-8669546332); [7709012815](tel:7709012815); cisat.nagpur@gmail.com; vikas@cisat.co.in.

Alternatively you can do ‘on line Registration’ through our web www.cisat.co.in or confirm through email.

Contact for any In-house Training at your plant.

We do undertake all types of Training activities at all levels

Cisat.nagpur@gmail.com