Centre for Industrial Solutions and Advanced Training

TRAINING PROGRAM ON PLC ENGINEERING & SCADA

18-21 Nov at Kolkata

CISAT
7/23/2019

Centre For Industrial Solutions and Advanced Training
An ISO 9001:2015 Certified
(Technical- Electrical/Mechanical/Automation/Chemical, Behavioral & Soft Skill, Safety, Business Excellence, Safety & Energy Audit)

"A complete Training Solution Under One roof"

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4 Days Training program on

PLC Engineering and SCADA

Basics, Operation and Maintenance & Troubleshooting

(18-21 Nov 2019 at Kolkata)

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)
- PLC Programming Languages overview
- PLC hardware configuration and addressing
- PLC Application Development
- PLC instructions – Basic and Advanced
- PLC Engineering & Troubleshooting

Module 2   (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

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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 particiapant 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

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Registration Details:

Dates of the programme: **18-21 Nov 2019 at Kolkata** (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 442259001

Venue: *@Kolkata*

For Registration, please contact:

1. Vikas- 00-91-8669546332; 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

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

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