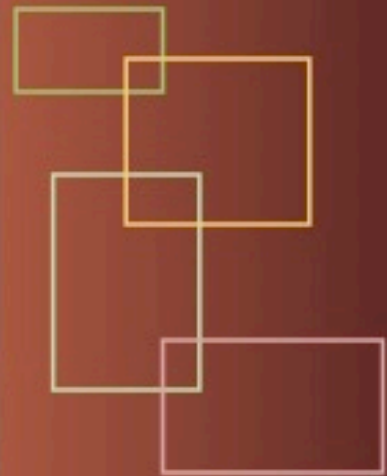


Industrial Control System Engineering Training

“The Essentials of Engineering, Practical and
Technical Knowledge of ICS Environment”



The Essentials of ICS Engineering

Core Value:

"The All-in-One training to cover the Essentials of the ICS Environment Philosophy and Engineering Aspects"

- Integrated materials
- SCADA workshop
- Programming Workshop
- Measurement Workshop
- Game Session – Safety Design and Engineering
- Case Study – System Best Practice
- Case Study – Understanding the System Philosophy of ICS Environment
- Hands-On Skills for Real Work Implementation

The Essentials of ICS Engineering

Purpose

To develop good understanding and fundamental knowledge regarding the ICS environment (Process Instrumentation, Communication Framework, DCS, SIS, SCADA, PLC, DMC and Flow Computer)

Training Content

Process Instrument fundamental, communication framework essentials (analog, semi-digital and digital), the ICS Environment system philosophy, engineering and operations framework (covering DCS, SIS, SCADA, PLC, DMC and Flow Computer), Industrial Standard exposure API, ISA, AGA and IEC

Detail Syllabus

Please refer to the page 4 to 7

The Essentials of ICS Engineering

Targeted Participants

IT Engineer/Technician, Instrument Control Engineer/Technician, Mechanical Engineer/Technician, Process Engineer/Technician, Operations Department (Plant Operator/Supervisor)

Enroll Now !

Please email us at fedco@fedco.co.id or register online at fedco.co.id/register

The Essentials of ICS Engineering

Day 1

- Opening Questions
- Course Overview
- Process Instrumentation
 - Flow, Pressure, Level and Temperature
 - ✓ The Philosophy and Engineering (including the type of sensing devices, measurement system, typical implementation and best practice approach)
- Communication Framework
 - Analog Communication
 - Semi-Digital Communication
 - Digital Communication

The Essentials of ICS Engineering

Day 2

- Distributed Control System (DCS)
 - The Evolution
 - The Philosophy and Engineering (including controls engineering fundamental and type of controls framework)
 - Industrial Standard for Programming Framework
 - Best Practice for Real Case Implementation
 - Case Study – System Best Practice
- Safety Instrumented System (SIS)
 - The Philosophy and Engineering
 - Safety Framework and Safety Life Cycle Essentials
 - Game Session– Safety Design and Engineering



The Essentials of ICS Engineering

Day 3

- Supervisory Control and Data Acquisition (SCADA)
 - The Evolution
 - The Philosophy and Engineering
 - Best Practice for Real Case Implementation
 - SCADA Workshop
- Programmable Logic Controller (PLC)
 - The Philosophy and Engineering
 - Programming Framework Fundamental
 - ✓ Ladder Diagram vs. Function Block Diagram Workshop
 - Best Practice for Real Case Implementation

The Essentials of ICS Engineering

Day 4

- Flow Computer
 - The Measurement Philosophy and Engineering
 - The Type of Meter and Characterization
 - The Custody Transfer Measurement Framework
 - Measurement Workshop
- Dynamic Matrix Control (DMC)
 - The System Overview
 - Implementation and Engineering of DMC
- Case Study– Understanding the System Philosophy of ICS Environment
- ICS Environment – A Security Overview
- Course Wrap-Up and Closing

Course Period

4 Days – Full time course

Venue

Offline (On-site or Off-site) and Online Training

Price

IDR 14.950.000/participant (local)

USD 1,495/participant (international)

Notes

- ✓ The training cost including training module, certificate, lunch, coffee break and souvenir
- ✓ Accommodation and transportation are excluded from the training cost
- ✓ Minimum 2 participants to run the course for Offline training



FedCo International
Depok City, Indonesia
Call Center : 0889-1-366-366
Email: fedco@fedco.co.id
Website: www.fedco.co.id

C O N T A C T