

Principles of SCADA and Measurement

Course Description

The course will provide the delegates with an understanding of the basic principles of the following:

- Factory Link, ILW Factory Link Configuration, External Device Interfacing (PLC's),
- Use of the Oracle Interface & Security & Commissioning Tools.

Course Objectives

To provide a basic understanding of the SCADA system architecture and functionality, together with sufficient knowledge of the system, in order to enable successful location, isolation and rectification of faults.

Who Should Attend

Operations, production supervisors, panel operators, instrument supervisors, first line maintenance personnel and computer personnel.

It is expected that delegates will have basic computer skills, Visual basic & "C" as a pre-requisite.

Course Outline

◆ Overview

- SCADA System Architecture/design concept
- Functionality and system components
- Factory Link utilities
- Directory structure

◆ Installation, Modularity and system configuration

- Server
- Hardware Pre-Requisites
- Installing Factory Link
- Bespoke Code
- Client Workstation
- Hardware Pre-requisites
- Installing WebClient

◆ Login and SCADA System Implementation

- Server NT Login
- Security Tool
- Client Login & Security
- Remote terminal units (RTUs)
- Computer System
- Peripherals and I/O devices

◆ Operator View

- System Overview
- Mimic Navigation
- Typical Mimic
- Tracking Form
- Device Control
- Sequence Control
- Alarms
- Messages & Prompts
- Utilities
- Concept
- Runtime Manager
- Hardware Diagnostics
- Utility usage
- System Access

◆ Industrial Measurement Applications

- Measurement systems and instrumentation
- Instrumentation standards and components
- Applications in the gas industry
- Measurement of weight, temperature, density, volume, flow rate
- Overfill detection, low level, pump suction
- Hazard conditions, explosimeter, oxy-meter
- Special applications, quality controls, laboratory analysis

◆ Automated Measurement Systems

- Data transmission fundamentals
- Computer communication system components
- Local controls, PLC's
- Supervisory systems, SAP, JDE
- Layout, control room
- Typical commercial systems

◆ Introduction to SCADA System Software.

For any further information please contact us at:

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