



SCADA 3-DAY WORKSHOP



Using SCADA Technology to Enhance Process Control, Compliance Monitoring and Business Intelligence

Date: February 24th, 25th & 26th 2009
Location: Arizona Department of Environmental Quality
Phoenix Main Office – Training Lab
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Phoenix, AZ 85007
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Offered by: Arizona Department of Environmental Quality

21 PDHs will be offered for completion of this SCADA Workshop. Partial PDHs may be given in the event of unforeseen circumstances. Agenda items and total number of PDHs offered may change without notice.

A full understanding of SCADA (Supervisory Control & Data Acquisition) Technology will enhance an Operator's ability to present clear, accurate and concise reports that will enhance compliance monitoring, process control and asset management. This critical data can be shared and distributed within an organization's departmental hierarchy so plant and business intelligence is effectively managed supplying key decision makers the critical data required to effectively manage the facilities process, assets and regulatory reporting requirements. Proper integration of a SCADA system will ensure a facility maximizes its productivity, efficiency and profitability.

This three day workshop will give students a "hands on" overview of how a SCADA I/O point's data (tank level, Flow, Pressure, Chlorine Residual, Pump Start/Stop, etc) is collected and processed within the hierarchy of SCADA Topology. This three day workshop is recommended for anyone involved in Water and Wastewater operations. Operators, Operations Supervisors, Operations Superintendents and Utilities Managers will all benefit from the material presented in this workshop. The Arizona Department of Environmental Quality will provide 18 desktop workstations for this workshop. Therefore, class size will be limited to 30 students. Students will be required to share workstations.

This workshop will introduce the following topics:

- ⇒ Instrumentation and Condition Based Monitoring Equipment – LIT's (Level), PIT's (Pressure), FIT's (Flow), Residual Chlorine Monitoring, Vibration, Temperature & Bearing Analysis
- ⇒ PLC's – Programming Code – Hands On (Ladder Logic, Function Block & Structured Text)
- ⇒ OPC (Object Linked Embedded Process Control) - DA (Data Access) & HDA (Historical Data Access)
- ⇒ SCADA I/O – Tagging, Collecting, Trending and Distributing the Data
- ⇒ SCADA Radio Communications and associated IT Network Topology – Initial Test, Configuration and Deployment
- ⇒ SCADA Surveillance Integration – Camera setup and Deployment
- ⇒ SCADA Security – Protecting your SCADA Application and Network Topology
- ⇒ HMI/GUI Applications – Human Machine Interface – Creating, Configuring and Deploying SCADA I/O Graphics
- ⇒ SCADA Data Collection and Distribution – Creating Trends and Distributing DATA
- ⇒ Migrating SCADA Plant Intelligence with Business Intelligence - Data Distribution Methodologies
- ⇒ Integrating SCADA/Plant Intelligence within the hierarchy of your organization – LIMS, CMMS, Human Capital, FAS- Asset management, Accounting, Engineering, CIS/CSR
- ⇒ Evaluating a SCADA system for Process Control, Compliance Monitoring and Asset Management

*LIMS – Laboratory Information Management System; CMMS – Computerized Maintenance Management System; CIS/CSR – Customer Information System/Customer Service Representative

Registration fee: Free of Charge Includes lectures and printed materials.
Review the ADEQ Meeting Agenda for detailed class schedule/synopsis.

***Registration deadline is February 16, 2008.**

There will be NO on-site registration.

Class size is limited to 30 students.

Registration Online at: www.opscert-erg.com

Directions, parking instructions, map and agenda will be provided upon receipt of registration.

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