SCADA and RTU Hands-On Training

ROC/FloBoss™ for Production Applications Course 1001

This PCE Pacific, Inc. course is for technicians, engineers, operators, and others responsible for installing, configuring, monitoring, troubleshooting, and gathering data using ROCLINK 800 /and Fisher® Flow Computers. The primary focus of this course is to provide comprehensive experience in gas production installations.

Overview: This 3-1/2 day course provides fundamental skills necessary to:
• Install and correctly terminate power and grounding and signal wiring to a Fisher Flow Computer on production settings
• Configure, calibrate, and troubleshoot a Fisher Flow Computer for AGA measurement and control for gas production
• Install, configure, and optimize Production Applications used to control production wells
• Gather, analyze, and store historical data and configuration files

This course provides maximum hands-on time with Fisher 809 or FloBoss 107 Flow Computers and ROCLINK800 software.

Prerequisites: A good working knowledge of Microsoft Windows and a general concept of gas measurement and production.

Topics
• ROC Hardware
• I/O Modules and Wiring
• Sensors, Wiring, and Addressing
• Configuration: I/O, AGA, History
• Calibration
• Saving / Reporting / Restoring
• PID Loop Design Configuration
• LCD
• Configuration, Implementation, Optimization, and Reporting for Production Applications

2011 Course Dates: 02/15 – 02/18
7/26 – 07/29
11/15 – 11/18

Course Location: Bothell, WA
Price: $1,265.00 USDL per student

ROC/FloBoss™ for Measurement and Control Course 1002

This PCE Pacific, Inc. course is for technicians, engineers, operators and others responsible for installing, configuring, monitoring, troubleshooting, and gathering data using ROCLINK 800 and Fisher Flow Computers. The primary focus of this course is to provide comprehensive experience in gas pipeline measurement installations.

Overview: This 3-1/2 day course provides fundamental skills necessary to:
• Install and correctly terminate power and grounding and signal wiring to a Fisher Flow Computer on transmission settings
• Configure, calibrate, and troubleshoot a Fisher Flow Computer for AGA measurement and control of multiple meter run settings
• Install, configure, and optimize Gas Chromatograph, Run Switching, and Logic Interfaces
• Gather, analyze, and store historical data and configuration files

This course provides maximum hands-on time with Fisher 809 or FloBoss 107 Flow Computers and ROCLINK800 software.

Prerequisites: A good working knowledge of Microsoft Windows and a general concept of gas measurement and control.

Topics
• ROC Hardware
• I/O Modules and Wiring
• Sensors, Wiring, and Addressing
• Configuration: I/O, AGA, History
• Calibration
• Saving / Reporting / Restoring
• PID Loop Configuration
• LCD
• Installation, Configuration, and Troubleshooting for Gas Chromatograph Interfaces
• Configuring Run Switching and Cause and Effect Logic Tables for EFM/Logic Applications

2011 Course Dates: 03/22 – 03/25
08/23 – 08/26
12/13 – 12/16

Course Location: Bothell, WA
Price: $1,265.00 USDL per student
SCADA and RTU Hands-On Training

Advanced Applications and SCADA Integration Course 2001

This PCE Pacific, Inc. course is for technicians, engineers, operators, and others responsible for advanced control applications and SCADA communications and integration. The primary focus of this course is to provide comprehensive experience in advanced control for multiple applications and integration into SCADA.

Overview: This 3-1/2 day course provides fundamental skills necessary to:
• Configure advanced PID control for both analog and discrete control applications
• Build specialized logic control using Function Sequence Tables (FST)
• Understand communication signals, ROC, and Modbus Protocols
• Using ROC or Modbus efficiently in a communication system and SCADA

This course provides maximum hands-on time with Fisher 809 or FloBoss 107 Flow Computers and ROCLINK800 software.

Prerequisites: Courses 1001 or 1002, basic understanding of control and operational standards.

Topics
• Advanced PID Control: Analog/Discrete, Over Ride Control
• Function Sequence Tables: Designing, Implementing, and Saving
• Communications, including:
  - Serial Signals
  - ROC Protocol, using Opcodes and Opcode Tables
  - Modbus Protocol, Master and Slave Modes
• Advanced Techniques of Cause and Effect
• Specialty End Devices and Their Signals
• Smart Remote Automation: Benefits, Usages, Live Demo

2011 Course Date: 05/24 – 05/27
09/20 - 09/23

Course Location: Bothell, WA
Price: $1,265.00 USDL per student

ROC™ 800L for Liquid Applications Course 1003

This PCE Pacific, Inc. course is for technicians, engineers, operators, and others responsible for installing, configuring, monitoring, troubleshooting, and gathering liquid data using ROCLINK 800 and ROC 809/827s. The primary focus of this course is to provide training in liquid flow metering applications in support of the 1980 and 1982 versions of API 2540, ASTM D1250, IP 200, ISO 91.2, ISO 92.2, IP3, GPA TP-25, API Table 23/24E and the draft version of Table TP-27.

Overview: This 3-1/2 day course provides fundamental skills necessary to:
• Install and correctly configure the ROC 809/827's Advance Pulse Module and Liquid Metering Application Software.
• Configure, calibrate, and troubleshoot a ROC 809/827 Flow Computer for measurement, API calculation and control for liquid flow metering applications.

This course provides maximum hands-on time with ROC 809/827 and ROCLINK800 software.

Prerequisites: A good working knowledge of Microsoft Windows and a general concept of liquid measurement and production.

Topics
• Introduction to Liquid Metering
• Principles and Standards of Liquid Metering
• API Calculations
• Configuration of ROC 809/827, Advance Pulse Module, and Liquid Metering Application Program
• Configuration, Implementation, Optimization, and Reporting for Production Applications

2011 Course Dates: 06/21 – 06/24
10/25 – 10/28

Course Location: Bothell, WA
Price: $1265.00 USDL per student

Location: PCE Pacific, Inc., located at: 2525 – 223rd Street SE, Bothell WA 98021
Times: All classes will start at 8:00 AM Tuesday and finish 12:00 PM on Friday.
Meals: Lunches will be provided.
To Enroll or for More Information Contact: Nick Krachmalnick or Colin Anderson at: (800) 321-4723 or Nick.krachmalnick@pcepacific.com or Colin.anderson@pcepacific.com.
Flow computers will be used in the training furnished by PCE Pacific, Inc. Upgrades to ROCLINK800 will be available to licensed users if required. Laptop and LOI cable to be furnished by each student.
Registration: Purchase order/payment is required at time of enrollment, credit cards accepted.