

SCADA and RTU Hands-On Training

WWW.VINSONPROCESS.COM 800.420.6571



Oil and Gas Production Management, Course 1013 NEW

This Vinson Process Controls Company course is designed for those responsible for installing, configuring, monitoring, troubleshooting and gathering data using ROCLink 800 and Remote Operations Controllers (ROC) RTUs. The primary focus of this course is to provide a broad experience in oil and gas production and pipeline installations and applications.

Overview This 4-day course provides fundamental skills necessary to:

- Install and correctly terminate power and grounding and signal wiring to a ROC.
- Configure, calibrate and troubleshoot a ROC for API (liquid) and AGA (gas) measurement and control.
- 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 ROC 809 RTU and ROCLink 800 software.

Prerequisite A good working knowledge of Microsoft Windows and a basic knowledge of the oil and gas business, especially production and pipeline installations.

Topics

- ROC Hardware and ROCLink System Administration
- Field Tools/ROCLink 800 Configuration for AGA Gas Measurement
 - AGA 3 Calculations Orifice Meters
 - AGA 7 Calculations Turbine Meters and Mass (Coriolis) Meters
- Field Tools/ROCLink 800 Configuration for API Liquid Measurement
 - 800L Programs
 - 800L Configuration
 - Pulse Meters
 - Volumetric or Mass Measurement
 - Defining API Standards Used
- Oil Tank Management and Haul Logs
 - Volumetric Haul Logs
 - Level or Meter Based Measurement
 - Loading Interface
 - SCADA Accessibility to Reports and Events
- Control Applications: Cause and Effect, Logic Blocks, PID Control, Displays
- Well Optimization
 - Gas Lift Control
 - Plunger Lift (as required)

Wireless Seminar An additional seminar is provided on Friday morning, which covers the utilization of Emerson wireless technology. The class registration guarantees a seat in this seminar.

- Remote Automation Solutions (RAS) wireless solutions
 - IEC 62591 Wireless Interface (WiHART) and its components
 - Wireless Distributed RTU Network (DRN) and its components

Location	2013 Course Dates	Price
Lewisville, TX	2/11, 3/11, 4/8, 5/20, 6/10, 7/8, 8/12, 9/9, 10/14, 11/11	\$1,375 (Lewisville, TX) USDL per student
Odessa, TX	3/25, 5/6, 7/22, 9/23, 12/9	\$1,475 (Odessa, TX) USDL per student

Course Location: Vinson Process Controls Company, LP [Lewisville, TX](#) [Odessa, TX](#)

Course Times/Meals: Course 1013 will begin at 1:00 PM Monday and finish 4:00 PM on Friday. Lunch will be provided Tuesday through Friday.

To Enroll or for More Information Contact: Wendy Horton at 972-459-8254 or wendy.horton@vinsonprocess.com or visit our website at: www.vinsonprocess.com/Vinson/Contact_Us/training_request.html. ROC 809 Flow Computers will be used in the training furnished by Vinson Process Controls. Upgrades to ROCLINK800 will be available to licensed users if required. Laptop and LOI cable to be furnished by each student.

Registration Deadline/Payment Information: 2 weeks prior to course start date. Purchase order/payment is required at time of enrollment, credit cards accepted.

Cancellations: You may cancel your reservation up to 14 days prior to the start of the course without incurring a cancellation charge. Limited enrollment makes it necessary to charge 50% of the full tuition for cancellations received during the 14 days prior to start of the course and full tuition for failure to attend without cancelling. Substitutions are accepted until the first day of class. Vinson Process Controls Company, LP reserves the right to cancel or reschedule courses due to insufficient students with a full refund to registered students. Any necessary cancellations will be announced a minimum of 72 hours prior to the start of class.

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Advanced Applications for ROC Oil and Gas Installations, Course 2013 NEW

This Vinson Process Controls Company course is designed for those responsible for installing, configuring, monitoring, troubleshooting, and gathering data using ROCLink 800 and Remote Operations Controllers (ROC) RTUs. The primary focus of this course is to provide a broad experience in advanced control for multiple applications and integration into SCADA.

Overview This 4-day course provides fundamental skills necessary to:

- Design and configure advanced PID control for both analog and discrete control applications
- Design and build specialized logic control using Function Sequence Tables (FST)
- Advanced programming skills using Cause and Effect and Logic Blocks
- Understand communication signals, Roc and Modbus Protocols
- Using ROC or Modbus efficiently in a communication system and SCADA
- ROC Displays
- Wireless Solutions
- Oil Tank Management

This course provides maximum hands on time with ROC 809 flow computers and ROCLink 800 software

Prerequisite Course 1013 or personnel with prior experience working with the ROC RTU and ROCLink software in the operation and maintenance of associated measurement and control equipment.

Topics

- Advanced PID Control
 - Analog/Discrete
 - Over Ride Control
- Function Sequence Tables
 - FST Editor
 - Commands, Logic, Arguments
 - Testing, Implementing and Saving
- Advanced Techniques using Cause and Effect and Logic Blocks
- Communications
 - ROC Protocol, Opcodes and Opcode Tables
 - Modbus Protocol, Master and Slave
 - Serial Signals
- Displays
 - ROCLink 800 Internal Display Building
 - Emerson External Keypads
 - Beijer Touch Screen Integrated with Vinson User Program
- Remote Automation Solutions (RAS) Wireless Solutions
 - IEC 62591 Wireless Interface (WiHART) and its Components
 - Wireless Distributed RTU Network (DRN) and its Components
- Oil Tank Management and Haul Logs
 - Volumetric Haul Logs
 - Level or Meter Based Measurement
 - Loading Interface
 - SCADA Accessibility to Reports and Events

Location Lewisville, TX **2013 Course Dates** 2/18, 4/15, 6/17, 8/19, 10/21

Price \$1,375 (Lewisville, TX) USDL per student

Course Location: Vinson Process Controls Company, LP [Lewisville, TX](#)

Course Times/Meals: Course 2013 will begin at 1:00 PM Monday and finish 4:00 PM on Thursday. Lunch will be provided Tuesday through Thursday.

To Enroll or for More Information Contact: Wendy Horton at 972-459-8254 or wendy.horton@vinsonprocess.com or visit our website at: www.vinsonprocess.com/Vinson/Contact_Us/training_request.html. ROC 809 Flow Computers will be used in the training furnished by Vinson Process Controls. Upgrades to ROCLINK800 will be available to licensed users if required. Laptop and LOI cable to be furnished by each student.

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