



# RTU & APPLICATIONS HANDS-ON TRAINING

## Course 1000 - Measurement Operations & Automation I

Optimize Well Performance and Operate with Confidence

### Measurement Operations and Automation I, Course 1000

This Vinson Process Controls Company course is 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 3-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.
- Installation and overview of Production Manager Suite of Software.
- 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
  - I/O Cards
- ROCLink 800 Configuration for AGA Gas Measurement
  - I/O Analog, Discrete, MVS
  - AGA 3 Calculations Orifice Meters
  - AGA 7 Calculations Turbine Meters and Mass (Coriolis) Meters
  - History
  - Security
- ROCLink 800 Configuration for API Liquid Measurement
  - 800L API Calculations
  - Volumetric or Mass Measurement
- Communications Basics
  - Modbus
  - Modbus Interface Manager
- Control Applications Basics
  - PID Control
  - Cause and Effect, Surface Controls, and Calculation Blocks
  - Function Sequence Tables
- Production Manager Suite of Software Overview
  - Well Optimization, Tank Manager, Chemical Manager, Well Test, Local Display (Beijer)

**Price** \$1395 USDL per student

Location	2020 Course Dates ,
Lewisville, TX	8/4
Oklahoma City, OK	5/5, 11/10
Odessa, TX	3/17, 6/23, 9/22

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

**Course Times/Meals:** 3 Days - Starting Tuesday at 8:00 am through 4:00 pm on Thursday. Lunch will be provided each day.

**To Enroll or for More Information Contact:** Vinson Process Controls at 972-459-8200 or [RASTraining@vinsonprocess.com](mailto:RASTraining@vinsonprocess.com)  
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. <https://www.vinsonprocess.com/training/>

**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.