

TERMINALS: ENRAF TANK GAUGING SYSTEMS MAINTENANCE AND BASIC TROUBLESHOOTING (CUSTOMER)

| Honeywell Academy

COURSE OVERVIEW

The Level 1 course is designed to provide participants with foundational knowledge and practical skills necessary for the effective maintenance and troubleshooting of ENRAF tank gauging systems.

The course aims to equip End User Maintenance Engineers with the essential tools to ensure the reliability and accuracy of tank measurement systems in various industrial settings.

Course Duration: 5 Days

Prerequisite Course(s): None

TARGET AUDIENCE

The course targets technicians, maintenance engineers involved in tank measurement systems.

COURSE DELIVERY OPTIONS

Instructor-Led Training.

KEY LEARNING OBJECTIVES

Participants will learn to:

- Understand basic tank gauging principles.
- Identify ENRAF system components and functions.
- Perform routine maintenance on tank gauging equipment.
- Diagnose common issues effectively.
- Follow safety measures during maintenance.

HANDS ON TRAINING

Participants will engage in practical exercises, including component disassembly, calibration, and basic troubleshooting simulations.

EVALUATION

Participants will be assessed through quizzes, practical assessments, and a final exam, leading to a training certificate upon completion.

COURSE STRUCTURE

1. Servo Technology (854 ATG & 954 Flexline Servo):

- Understanding servo principles using Series 854 & 954 ATG hardware and software.
- Basic Installation aspects and safety requirements.
- Overview of basic servo features, including commands
- Reference Level calibration.

2. FlexLine and FlexConn Technology:

- Maintenance of FlexConn boards, basic diagnostics using Engauge Pro Hart SmartView
- Measurement techniques for VITO temperature, pressure, and density (including various VITO probes and transmitters).

3. Radar Technology:

- Principles of Smart Radar for PSD level and Phase Level including hardware/software communication and calibration.
- Basic radar applications and antenna exchanges.

4. Communication Interface Units (CIU 888):

- Hardware Overview and System Architecture Explanation.
- Standalone and Redundant operation, web interface, and set-up capabilities.
- First Line Maintenance and understanding CIU888 Status and Alarms.
- Basic Operational diagnostics and service tools.

5. ENTIS HS and ENTIS PRO Tank Inventory Management Systems:

- Hardware and Software Requirement and Understanding Volume Calculations.
- Operation setup and understanding Tank Inventory Features.
- Basic Maintenance and Operational Alarm Checks.

For more information:

<https://automation.honeywell.com/us/en/support/training/pmc-training>

**Honeywell Process
Measurement and Control**

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ENRAF Tank Gauging Systems Maintenance And Basic
Troubleshooting (Customer) | Rev 01 | 12/24
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