

# TERMINALS: ENRAF TANK GAUGING SYSTEMS MAINTENANCE AND TROUBLESHOOTING (CHANNEL PARTNERS)

| Honeywell Academy

## COURSE OVERVIEW

The **\*\*ENRAF Tank Gauging Systems Maintenance and Troubleshooting\*\*** 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 Channel Partner Service Engineer with the advance tools to ensure the reliability and accuracy of tank measurement systems in various industrial settings.

**Course Duration: 3 Days**

### Prerequisite Course(s):

- Competency Evaluation
- ENRAF TGS Configuration & Implementation Level 1 Course

## 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 troubleshooting and maintenance of ENRAF Field Devices with ENGAUGE and HART SMV.

- Spot the Hardware and Software Issues interpreting the error codes.
- Perform predictive, corrective and 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)

- Service using ENGAUGE Pro and Hart Smart View.
- Analyze Servo Logs and utilize run down test command for further maintenance of ENRAF TGS.
- Reference Level calibration.

### 2. FlexLine and FlexConn Technology:

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

### 3. Radar Technology:

- Interpret PSD Level and PL Level using Heimdal Diagram.
- Apply Maintenance, SIL Test and Level calibration.

### 4. Communication Interface Units (CIU 888):

- Troubleshoot CIU888 and Apply Maintenance.
- Redundancy Test and troubleshooting.
- First Line Maintenance and understanding CIU888 Status and Alarms.

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

- Event, Logs, and extractions for troubleshooting.
- Alarm interpretation.
- Perform Maintenance of ENRAF Field Devices using the ENTIS Pro and ENTIS HS Commands.

**For more information:**

[https://automation.honeywell.com  
/us/en/support/training/pmc-training](https://automation.honeywell.com/us/en/support/training/pmc-training)

**Honeywell Process  
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ENRAF Tank Gauging Systems Maintenance And Troubleshooting  
(Channel Partners) | Rev 01 | 12/24  
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