

Process Instrumentation Level Technology

General Information

Course Code: PIA-PRT1C1A
Length: 4 Days

Audience

Service personnel and customers using process instruments.

Profile

Combining hands-on tutorials with theory sessions, this course teaches participants the principles of solids and liquid level measurement using the Siemens PI ultrasonic, radar, capacitance, guided wave radar, and point level detection technologies. Covering product lines and common applications, participants learn the basics of point and continuous level measurement, product features, product selection, understanding and meeting customer requirements, and troubleshooting.

Topics

1. Ultrasonics
 - a. Theory
 - b. SITRANS Probe LU, MultiRanger, and accessories
 - c. Applications, programming, and installation basics
 - d. Support Software
2. Microwave Radar
 - a. Theory
 - b. Pulse, FMCW, 2-wire
 - c. Power, Frequency, Cost
 - d. SIMATIC PDM
 - e. SITRANS Probe LR, SITRANS LR200/250, SITRANS LR460, SITRANS LR560
 - f. Applications and installation basics
3. Guided Wave Radar
 - a. Theory
 - b. SITRANS LG200
 - c. Applications and installation details
4. Capacitance
 - a. Theory
 - b. Point Level, Pointek CLS100, Pointek CLS200, Continuous Level
 - c. SITRANS LC500
 - d. Applications