

## PROCESS INSTRUMENTATION Level Technology (PI-LVL)

### Short Description

PROCESS INSTRUMENTATION Level Technology

### Objectives

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.

### Content

1. Ultrasonics
  - a. Theory
  - b. SITRANS Probe LU, MultiRanger, and accessoires
  - 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,
  - 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

### Prerequisites

Basic knowledge on plant instrumentation

### Type

Face-to-face training

### Duration

4 days

### Language

en

### Fee

15,780 ZAR