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# LEVEL MEASUREMENT

## TRAINING COURSE OUTLINE

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### COURSE SUMMARY

This course covers various level measuring technologies and designs, including RF capacitance, conductive, hydrostatic, radar, ultrasonic, radiometric, and point level devices. Participants will explore the principles of operation, learn how to select and apply these technologies, and understand the steps for proper installation and wiring. The course also includes configuration, maintenance, calibration, and troubleshooting techniques for each device type.

By the end of this course, participants will have gained the expertise to effectively implement and maintain level measurement systems in diverse industrial environments.

### COURSE OBJECTIVES

Students should know and understand the following about various level measuring Technologies and Design - RF capacitance, conductive, Hydrostatic, Radar, ultrasonic, radiometric and point level devices:

- Principle of Operation
- Selection and application
- Installation
- Wiring
- Configuration
- Maintenance
- Calibration
- Troubleshooting

### COURSE OUTLINE

- Introduction
- RF Capacitance
- Conductive sensors
- Hydrostatic level instruments
- Radar level sensors
- Ultrasonic level sensors
- Radiometric level sensors
- Point level sensors
- Selection and Application

- Configuration Maintenance and Troubleshooting
- Calibration and wiring
- KOBOLD NUS-3053R Ultrasonic level transmitter
- Installation
- Wiring
- Operation
- Setup
- Radar transmitter FMR 10
- Radar transmitter FMR 20
- Level switches (conductive, vibronic)