

# Training Classes with Hands-on Experience

## Level Instrumentation Fundamentals & Configuration

### The Application Training Center

Your competent partner for application training in process automation.

The ATC provides

- Training with extensive hands-on experience
- Training under real process conditions
- Learning in small groups
- A didactical proven concept

Our training under real process conditions guarantees sustainable training success.

### Location

The Application Training Center is located in Reinach, Switzerland.

Profit from a 'hands on experience' with training courses from the Application Training Center.



Hands-on lessons under real process conditions guarantee the best learning results

Select, configure and analyze level measuring principles for different applications

**Course content** Introduction to the basics of the most common level measuring principles and device configuration as well as operational parameters.

Installation suggestions for different level measurement principles will be discussed.

The right selection of the correct level measuring devices is also part of this training as well as the influence of the application and process conditions on the measurement stability and accuracy.

**Key benefits** Participants will understand: Hydrostatic, capacitive vibronic, radar, ultrasonic & guided radar measuring principles. They will be introduced to the device software in regards to parameters, signal curve, noise echo filtering and related information.

The participants learn to configure level measuring devices either on-site or remote with FieldCare, filter unwanted signal reflections and analyze the raw signal to understand applications and related measuring problems.

Process disturbances and how these disturbances effect the measurement accuracy are discussed.

Participants will be enabled to select the correct measuring principle for different applications and will get an awareness for the importance of application and process conditions for the measuring accuracy.



Experience real process conditions with our training rigs

#### Focus topics

- Introduction to different level measurement principles like microwave radar, guided radar, ultrasonic, hydrostatic, vibronic and capacitive measurement
- Introduction to different device parameters and configurations
- Typical applications for each measuring principle
- Installation suggestions

**Target group** Anyone who is interested in level measurement technologies as well as maintenance and project engineers for level applications

**Working methods** A combination of presentations and workshops, hands-on training in small groups (max. 4)

Minimum participants for a course: 4

**Language** English

#### Time

- |        |                         |
|--------|-------------------------|
| 1. Day | from 09:00am to 05:00pm |
| 2. Day | from 09:00am to 05:00pm |
| 3. Day | from 09:00am to 05:00pm |
| 4. Day | from 09:00am to 05:00pm |
| 5. Day | from 09:00am to 05:00pm |

#### Location

Endress+Hauser Consult AG  
Sales Support  
Application Training Center  
Kaegenstrasse 18  
CH-4153 Reinach / Switzerland

**Registration** Online on [www.endress.com](http://www.endress.com) or through email: [atc@holding.endress.com](mailto:atc@holding.endress.com)

#### Application Training Center

Endress+Hauser Consult AG Sales Support  
Kägenstrasse 18  
4153 Reinach  
Switzerland

Phone: +41617157700  
Fax: +41617152888  
[atc@consult.endress.com](mailto:atc@consult.endress.com)  
[www.endress.com](http://www.endress.com)