

# ControlMaster

Recorders & Controllers

## Z213e – Web-based training (External version)

### Course duration

1.5 hours, depending on personnel knowledge

### Course type

This is a web-based training course. The course includes self-study material and self-assessment questions. The language of the course is English.

### Course goal

The goal of this course is to introduce the product basics of ControlMaster.

The training covers the following topics:

- Basic principles
- Advanced principles
- Product portfolio & technology
- Applications

### Student profile

All ABB stakeholders (customers, universities, partners, ...)

### Course objectives

Upon completion of this course, students will be able to:

- Describe where PID control is used
- Explain signal inputs and outputs
- Recognize PID terms
- Describe basic PID function
- Distinguish where alarms, split output, remote setpoint, autotune, communications and templates are used
- Explain time proportioning control
- Identify motorized valve control
- Recognize cascade, feed forward and ratio control
- Distinguish where more complex controllers are used
- Define the ControlMaster portfolio
- Describe the ControlMaster build/options/order code
- Distinguish different models-features
- Relating option keys to ControlMaster features
- Recognize where to use the CM15 indicator
- Recall a number of differing applications for ControlMaster
- Describe some of these applications stories