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ABB UNIVERSITY

# Learning paths

## The path to higher performance



### Learning paths for

- ABB Ability™ System 800xA
- ABB Ability™ Symphony Plus / Harmony
- Quality Control Systems
- Advant Master
- Advant MOD

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**Automation and training go hand-in-hand. Provide each team member at your site with the proficiency to achieve the highest performance operating, maintaining, programming or engineering your ABB automation equipment, with these value purchasing programs.**



**Training Passport**

Ensure that each staff member, including engineering, programming, maintenance and operations, has adequate training for ABB control systems, multidrives, process analyzers and instrumentation. With the ABB University Training Passport program, twelve months of unlimited in-center training is available for one low price, per employee.



**Site Bundle**

Ensure each site's team has the advanced training allowing them to perform their best when needed most. With the ABB University Site Bundle program, four weeks of training will earn the site one free week of in-center training. Multiple personnel from the site can utilize the five weeks of training within a twelve month period.

[abb.us/abbuniversity](http://abb.us/abbuniversity)

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**Course descriptions**

Find detailed course descriptions for all ABB University control system courses under the Industrial Automation heading here:

[abb.us/abbuniversity](http://abb.us/abbuniversity)

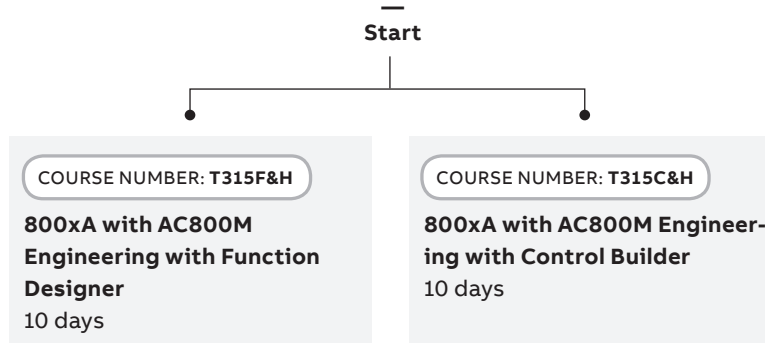
Or search the on-line catalog for a specific course:

[mylearning-americas.abb.com](http://mylearning-americas.abb.com)

# ABB Ability™ System 800xA

## Engineering learning path

Learning path



**Advanced courses**

Students are recommended to complete the learning path before taking advanced courses.

**COURSE NUMBER: T305**  
**800xA Installation and Administration**  
 5 days

**COURSE NUMBER: T309**  
**Safety – AC800M High Integrity**  
 4 days

**COURSE NUMBER: T318**  
**800xA History**  
 5 days

**COURSE NUMBER: US950**  
**Virtualization of ABB System**  
 5 days

**COURSE NUMBER: T307**  
**800xA Batch Engineering and Operation**  
 5 days

**COURSE NUMBER: US925**  
**Cyber Security Services**  
 5 days

# ABB Ability™ System 800xA

## Maintenance learning path

**Basic maintenance**

Start

COURSE NUMBER: T308

**800xA Hardware Maintenance and Troubleshooting**

5 days

**Advanced maintenance**

Start

COURSE NUMBER: T315F&H

**800xA with AC800M Engineering with Function Designer**

10 days

COURSE NUMBER: T315C&H

**800xA with AC800M Engineering with Control Builder**

10 days

COURSE NUMBER: T314

**800xA Basic Configuration**

5 days

COURSE NUMBER: T305

**800xA System Installation and Administration**

5 days

**Advanced courses**

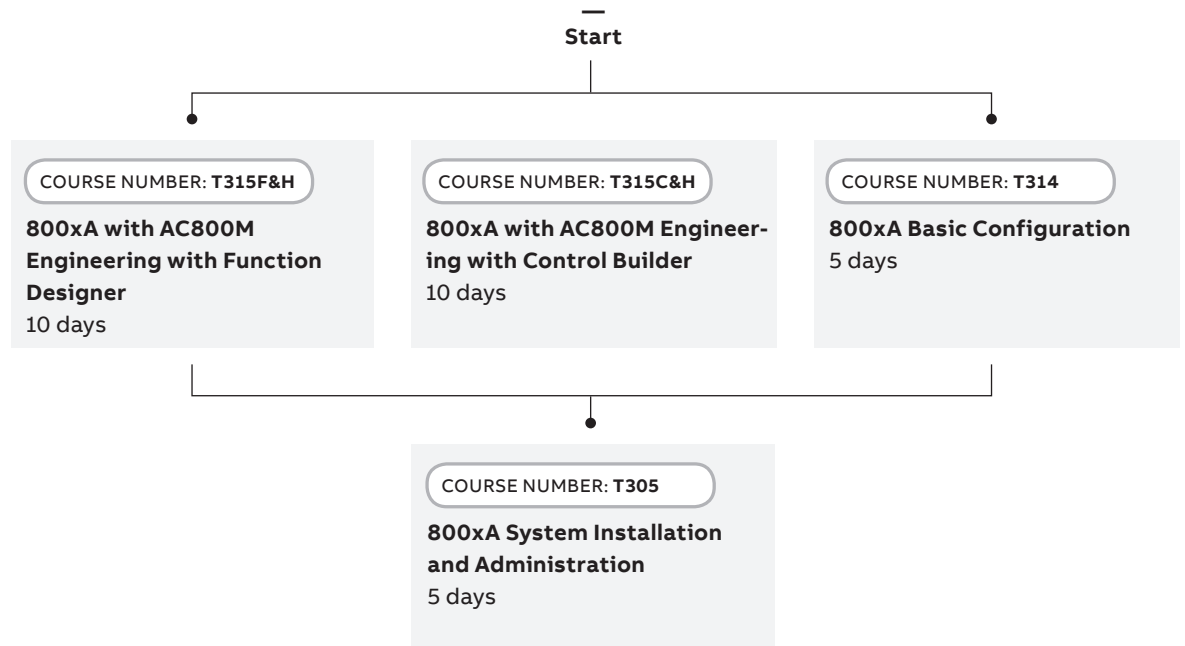
Students are recommended to complete the learning path before taking advanced courses.

COURSE NUMBER: US925  
**Cyber Security Services**  
 5 days

# ABB Ability™ System 800xA

## Administration learning path

### Learning path



### Advanced courses

Students are recommended to complete the learning path before taking advanced courses.

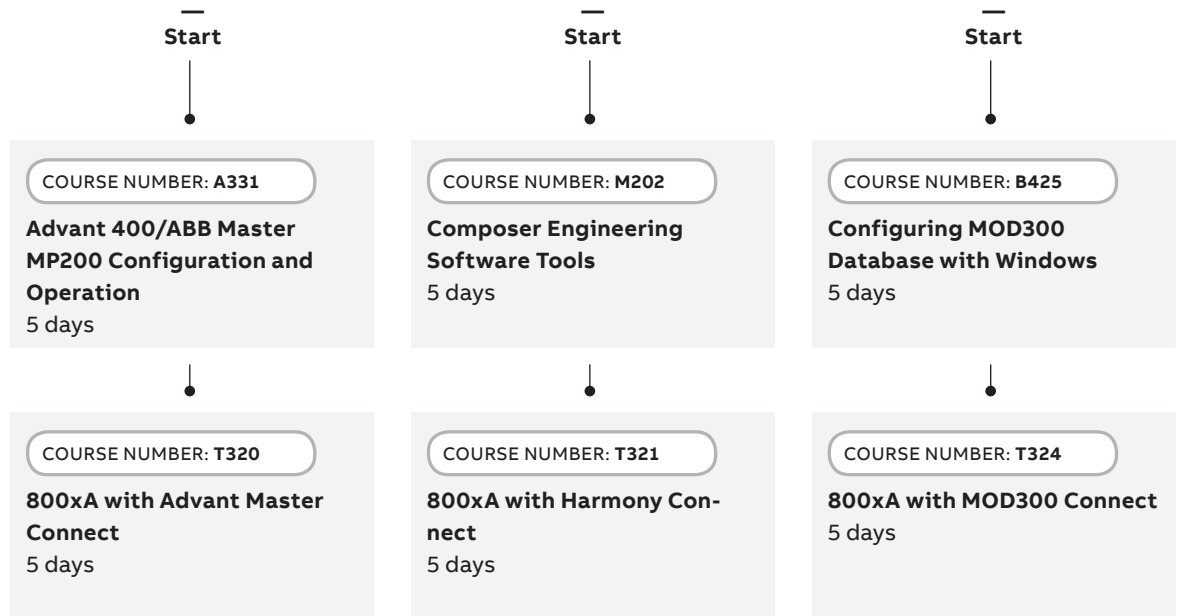
COURSE NUMBER: T318  
**800xA History**  
5 days

COURSE NUMBER: US950  
**Virtualization of ABB Systems**  
5 days

# ABB Ability™ System 800xA

## Evolution learning paths

Evolution learning paths



**Advanced courses**

Students are recommended to complete the learning path before taking advanced courses.

COURSE NUMBER: T305  
**800xA Installation and Administration**  
 5 days

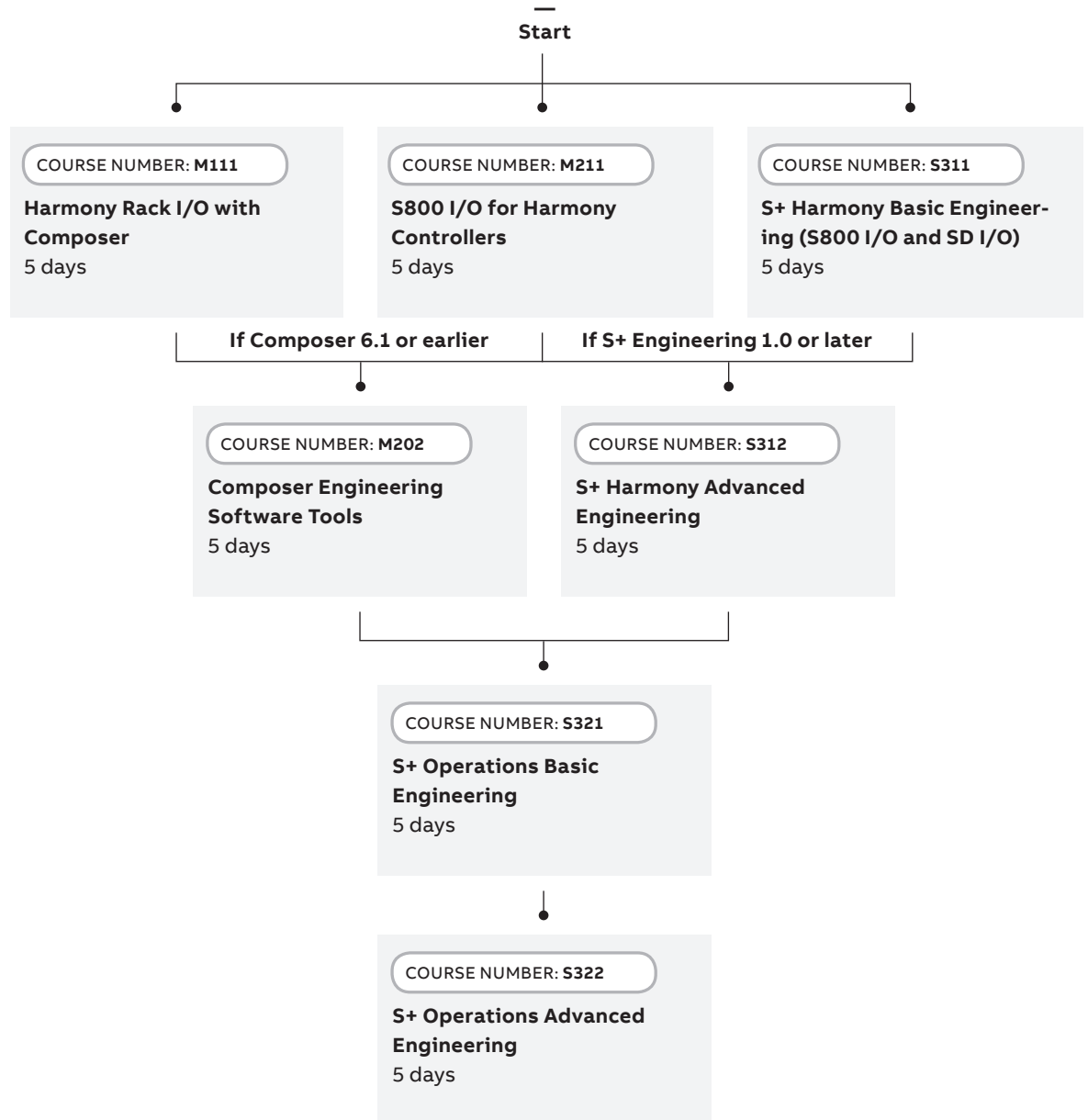
COURSE NUMBER: T318  
**800xA History**  
 5 days

COURSE NUMBER: T307  
**800xA Batch Engineering and Operation**  
 5 days

COURSE NUMBER: T309  
**Safety - AC800M High Integrity**  
 4 days

# ABB Ability™ Symphony Plus / Harmony Engineering learning path

## Learning path



### Advanced courses

Students are recommended to complete the learning path before taking advanced courses.

COURSE NUMBER: M301  
**Power and Grounding for Distributed Control Systems**  
5 days

COURSE NUMBER: M304  
**Harmony Function Code Configuration Strategies**  
5 days

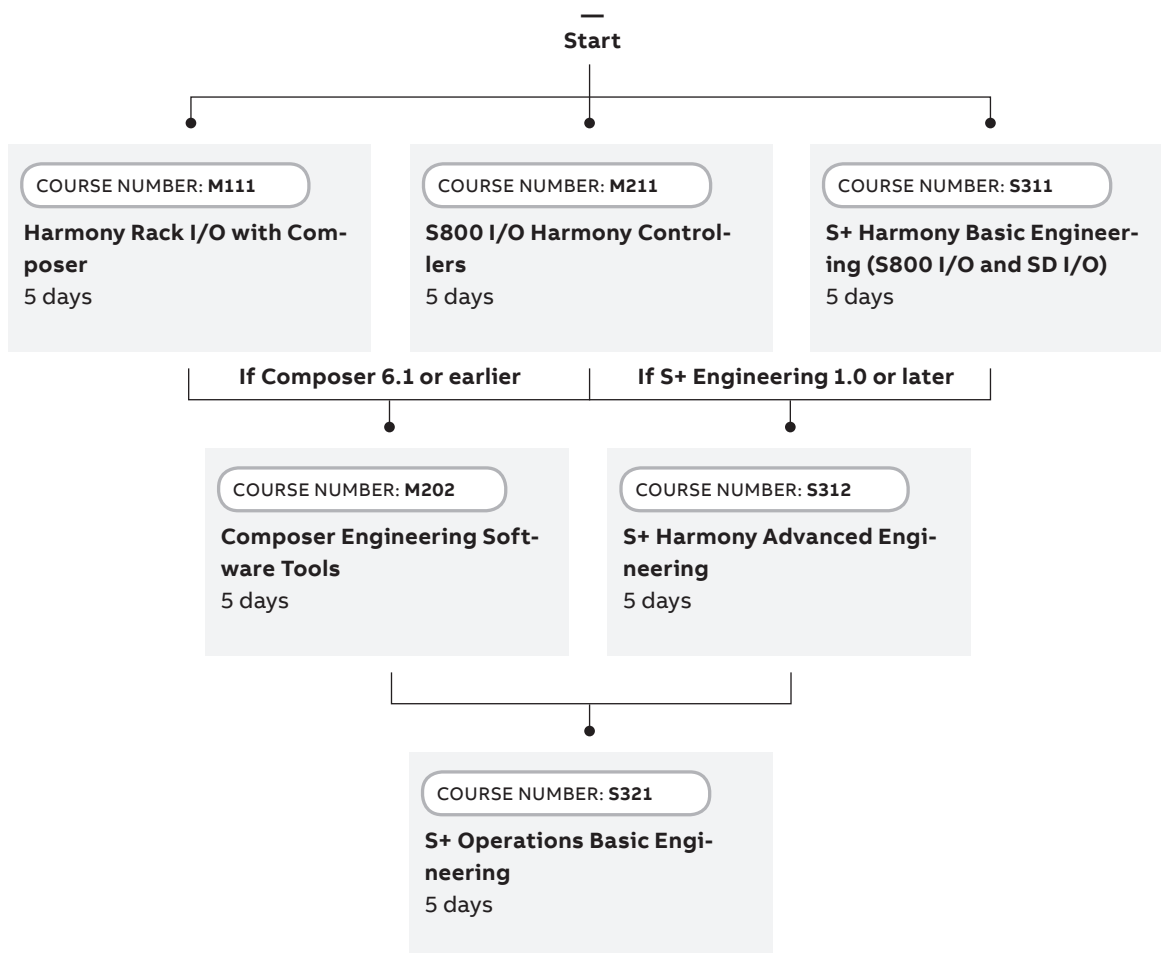
COURSE NUMBER: US925  
**Cyber Security Services**  
5 days

COURSE NUMBER: US950  
**Virtualization of ABB Systems**  
5 days



# ABB Ability™ Symphony Plus / Harmony Maintenance learning path

Learning path



**Advanced courses**

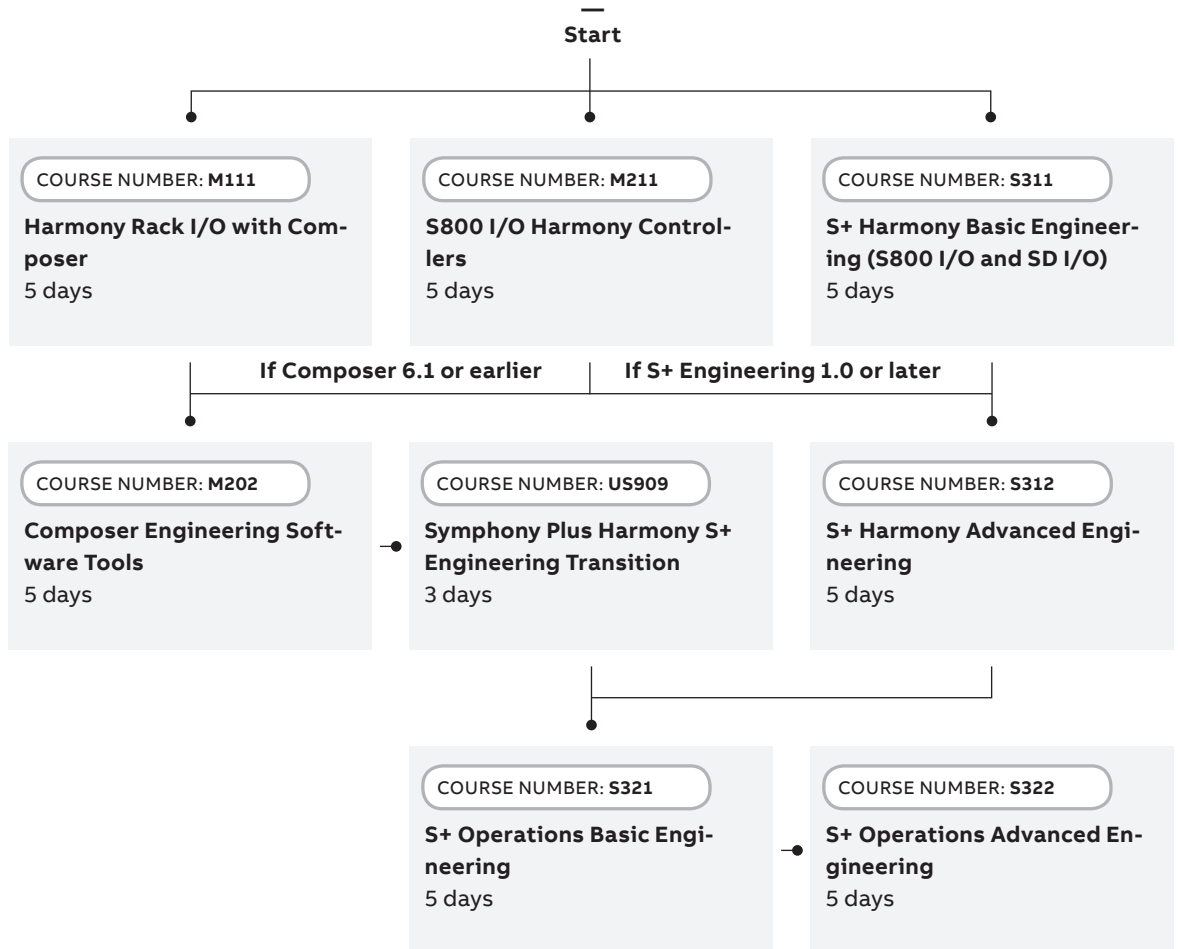
Students are recommended to complete the learning path before taking advanced courses.

COURSE NUMBER: M301  
**Power and Grounding for Distributed Control Systems**  
 5 days

COURSE NUMBER: US925  
**Cyber Security Services**  
 5 days

# ABB Ability™ Symphony Plus / Harmony Evolution learning path

Learning path



**Advanced courses**

Students are recommended to complete the learning path before taking advanced courses.

COURSE NUMBER: M301  
**Power and Grounding for Distributed Control Systems**  
5 days

COURSE NUMBER: S303  
**Cyber Security for Symphony Plus**  
5 days

COURSE NUMBER: M304  
**Harmony Configuration Strategies**  
5 days

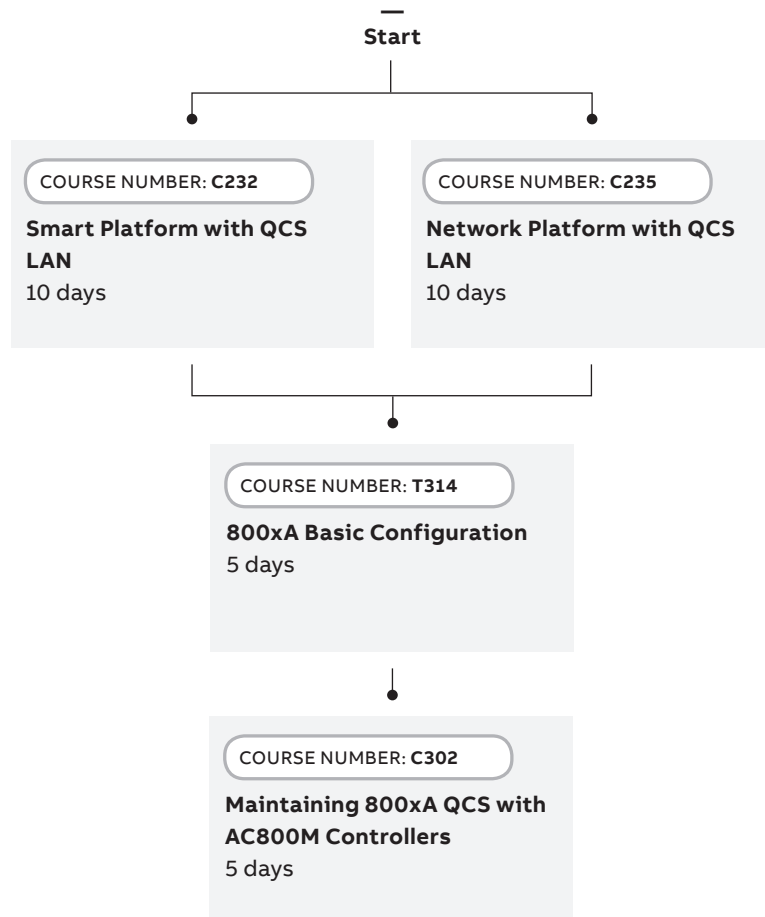
COURSE NUMBER: US924  
**Symphony Plus History**  
5 days

COURSE NUMBER: S320  
**S+ Operations Operator**  
0.5 days

# Quality Control Systems

## Engineering learning path

### Learning path



### Evolution courses

COURSE NUMBER: C234  
**Smart Platform to Network Platform Upgrade**  
 4 days

### Advanced courses

Students are recommended to complete the learning path before taking advanced courses.

COURSE NUMBER: C148  
**Smart Color Measurement and Control**  
 5 days

COURSE NUMBER: C311  
**QCS Sensor Correlation Class**  
 5 days

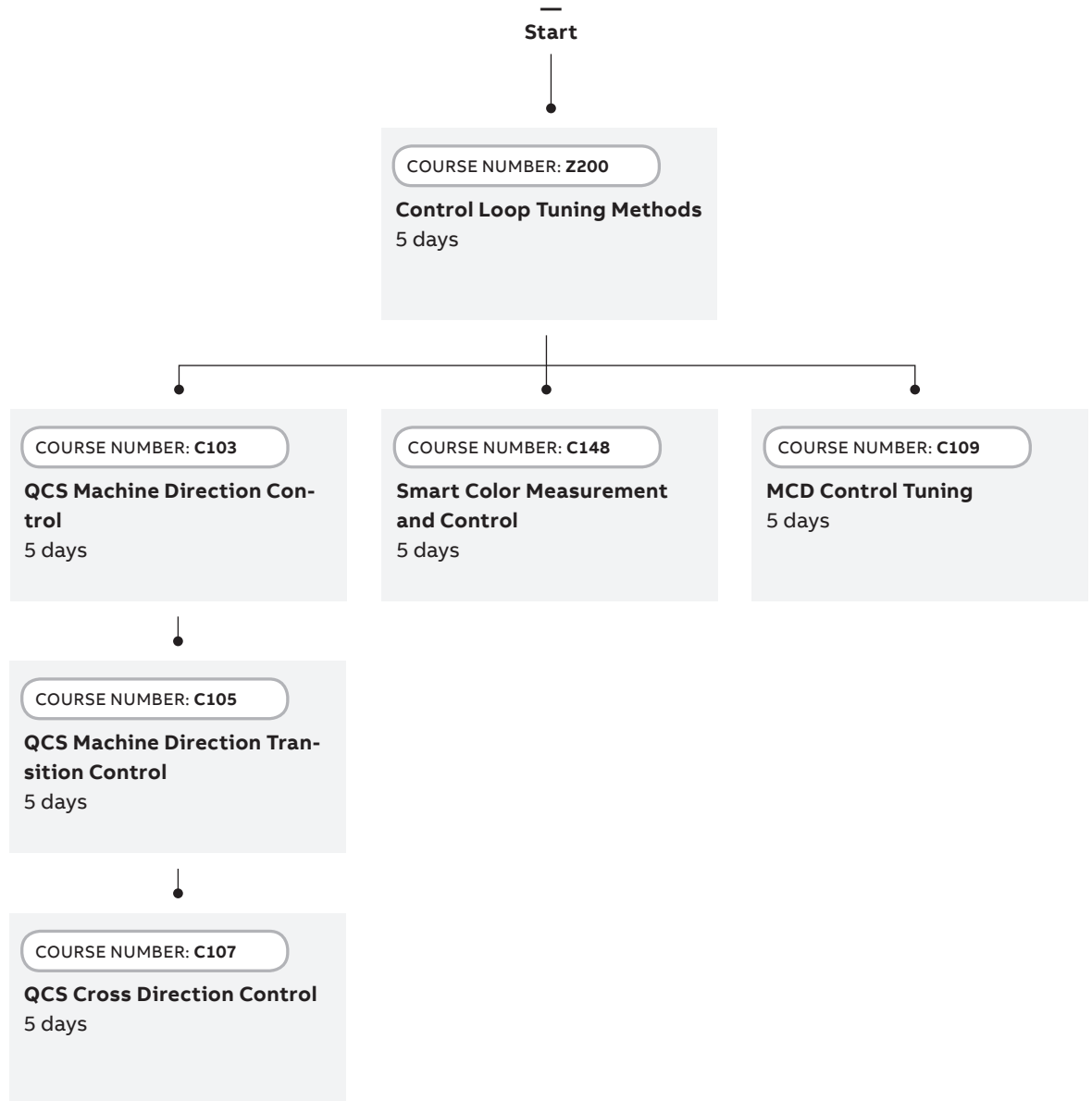
COURSE NUMBER: C313  
**QCS Advanced Sensor Operation and Troubleshooting**  
 5 days

COURSE NUMBER: C306  
**Advanced QCS 800xA Concepts**  
 5 days

# Quality Control Systems

## Control tuning learning path

### Learning path

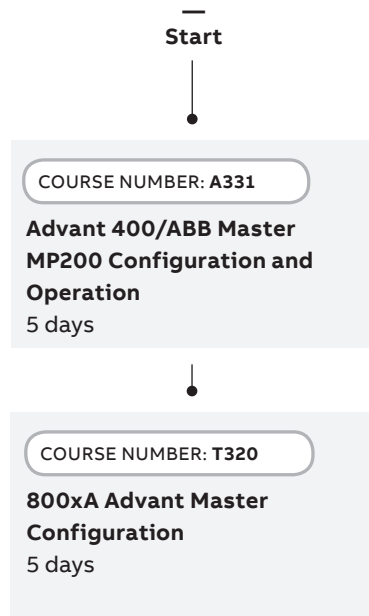


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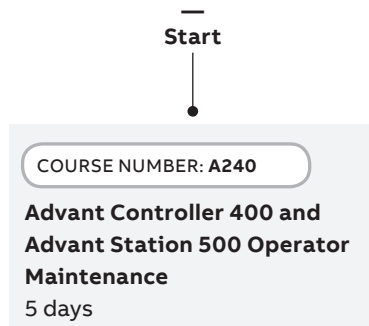
# Advant Master

## Learning paths

### Engineering learning path



### Maintenance learning path

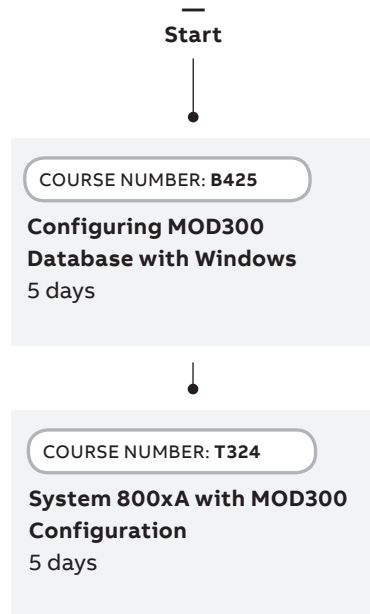


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# Advant MOD

## Engineering learning path

Learning path



# Operator training

## Navigate, operate, interpret and react

Operators learn to navigate, operate, interpret and react accordingly to system information. Operator training is delivered on-site, so that operators have access to their site specific process and system information.

COURSE NUMBER: T310

### **ABB Ability™ System 800xA Operations - Operator**

4-5 hours

In this instructor led course, students learn how to operate and navigate in System 800xA. Course will include both interactive class room discussions and hands-on lab, delivered on-site.

#### **Course objectives**

This course will give operators an overview of the System 800xA architecture and the function of its' different components. Students will learn to:

- Navigate In a standard Operator Workplace by using Aspect Objects technology
- Read and interpret information from different process displays
- Monitor and control standard process objects through faceplates
- Interpret information on interlocks handle alarm and event lists
- Operate trend displays and interpret the information
- Monitor and control sequences based on Sequence Function Charts

COURSE NUMBER: S320

### **ABB Ability™ S+ Operations - Operator**

4-5 hours

In this instructor led course, students will learn the professional handling and operation of a Symphony Plus system and how to interpret messages and react accordingly. Course will include both interactive class room discussions and hands-on lab, delivered on-site.

#### **Course objectives**

This course will give operators an overview of the Symphony Plus system structure, operator workplace design and layout. Students will learn to:

- Log on to the system and on to an operator workplace
- Understand the contents of an operator workplace
- Call up process graphics
- Control typical monitoring and control functions using faceplates
- Work with trend displays
- Handle alarm and event lists
- Navigate in the process using various display types
- Create and modify standard displays
- Work with trend displays and configure user specific trend displays
- Manage alarm and event lists, including filter actions, acknowledgement and call up of context menus from faceplates

**How to enroll**

Call: 800 HELP 365 (option 2, option 2)

Email: [abbuniversity@us.abb.com](mailto:abbuniversity@us.abb.com)

Fax: 919 666 1388

Web: [abb.us/abbuniversity](http://abb.us/abbuniversity)

**ABB University contacts**

Joe Hartman, Operations Manager: 440 585 8091

**Additional information**

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