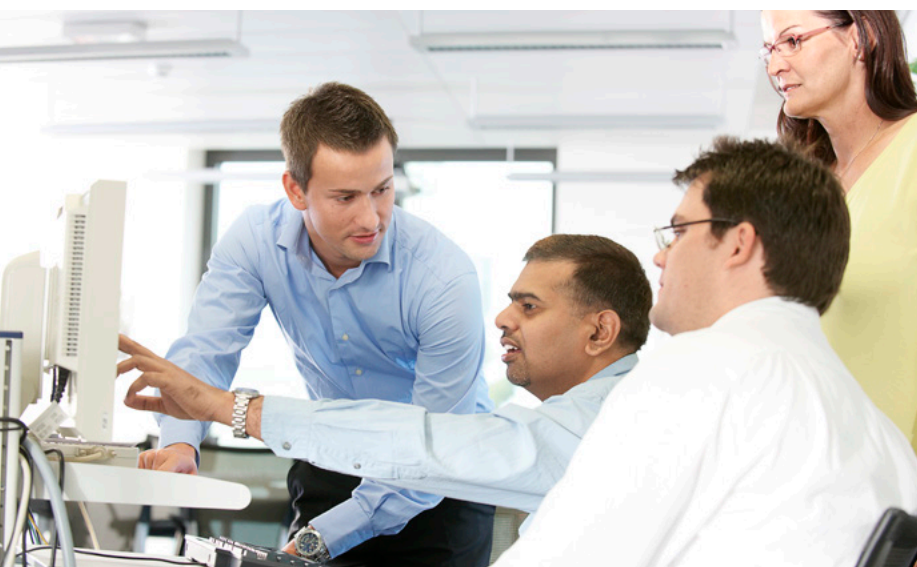


A331

Advant Controller 400 Configuration and Operation



Learn to operate and configure the Advant Controller 400 with local and/or remote I/O, and write control programs in the ABB MasterPiece Language.

Course type and methods

This is an instructor led workshop with short presentations and demonstrations, extended exercises, hands-on sessions and discussion.

Student Profile

This course is targeted to system, process, application, instrumentation, electrical, or service engineer.

Prerequisites

Participants should have basic knowledge of logic diagrams and how processes are controlled.

Course objectives

Upon completion of this course the participants will be able to:

- Program Advant Controller using Advant station 100 series Engineering Stations (also applicable to the Online Builder option for the Advant 500 Operator Station)
- Use equipment in normal operation

Main Topics

- Advant OCS philosophy and products
- Block selection (PC-elements)
- ABB MasterPiece Language (AMPL) programming methods
- How to define, dimension, and populate a database
- On-line Builder software (PC programming, dumping, loading and parameter adjustment)
- Introduction to AdvaBuild Function Chart Builder (FCB)

Duration

The duration is 5 days

Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none">• Course information• Training equipment presentation• Signal flow, hardware/software• Advant Station 100 Engineering Station• Database handling	<ul style="list-style-type: none">• PC program structure• Monitoring and testing of application programs• Operation of the process controller and PC programs• Design of PC program, online	<ul style="list-style-type: none">• On-line documentation• Back-up and transfer of application• Application with sequence	<ul style="list-style-type: none">• Sequence programs in an operator station• DAT communication between PC programs• Data set communication between controllers• AC400 series and S800 I/O database configuration	<ul style="list-style-type: none">• Program handling• Object control using functional units

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