A331
Advant Controller 400 with MasterPiece 200
Configuration and Operation

Learn to operate and configure the Advant Controller 400 or MasterPiece 200 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 or MasterPiece using
  Advant Station 100 Series Engineering Stations
  (also applicable to the On-line 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)

Course duration
The duration is 5 days.

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Course outline

Day 1
– Course information
– Training equipment presentation
– Signal flow, hardware-software-hardware
– Advant Station 100 Engineering Station
– Database handling

Day 2
– Review: questions and answers
– PC program structure
– Monitoring and testing of application programs
– Operation of the process controller and PC programs
– Design of PC program, on-line

Day 3
– Review: questions and answers
– On-line documentation
– Back-up and transfer of application
– Application with sequence

Day 4
– Review: questions and answers
– Sequence programs in an operator station
– DAT communication between PC programs
– Data set communication between controllers
– AC400 series and S800 I/O database configuration
– Function Chart Builder

Day 5
– Review: questions and answers
– Program handling
– Object control using functional units
– Summary
– Evaluation

To register contact the North America Customer Service Center or visit our website.

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