ABB UNIVERSITY

T330
Composer Melody
Configuration for Process Industries

The goal of this course is to learn the configuration of the Melody controllers with the engineering tool Composer Melody using Function Blocks for the Process Industries.

Course Type
This is an instructor-led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab activities.

Participant profile
This training is targeted to system and application engineers, commissioning and maintenance personnel, service engineers and system integrators.

Prerequisites
Students shall know the fundamentals of working with Control Systems and have basic knowledge about Microsoft® Windows and Office. They should also be familiar with the general system principles which are taught in the basic courses (e.g. T322).

Learning objectives
Upon completion of this course the participant will be able to
- Describe the architecture of a System 800xA with Melody for Process Industries
- Identify the Melody hardware modules
- Navigate in the 800xA System and operate process points

- Navigate in the Composer Melody System Engineering Tool
- Handle and create function diagrams
- Create new process points, plant areas and functional units
- Configure analog and binary monitoring functions
- Configure closed loops and individual drive functions
- Configure Sequential Function Charts.

Topics
- System architecture with Melody
- Introduction to Composer Melody System Engineering Tool
- Working in the Engineering Workplace
- Data Bases and Views of the Engineering Data
- Planning View
- Creating Process Points, Plant Areas and Functional Units
- Program, Station and Task Allocation
- Local and Global Variables
- Channel Allocation of I/O Modules
- Creating Analog and Binary monitoring
- Closed-Loop control
- Individual Drive functions
- Sequential Function Chart
- Composer Reports
- Import and export

Duration
5 days

Agenda

Day 1	Day 2	Day 3	Day 4	Day 5
Course overview	Creating Process Points, Plant Areas and Functional Units	Analog and Binary monitoring	Individual Drive functions	Sequential Function Chart (continued)
System architecture with Melody		Closed-Loop control	Sequential Function Chart	Composer Reports
Engineering Workplace, Project Views, Navigation	Creating Functions			Import and Export
Measuring, and Simulating	Copying and altering Functions			Bulk Configuration

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