Course description

G340

Function chart builder (FCB) programming for advant controller AC80

Course Duration

The course duration is 3 days.

Course type

This is a classroom course with hands-on lab activities supported by an instructor.

Course Goal

The goal of this course is to teach students how to use the AdvaBuild in the AC80 system.

Student Profile

This course is intended for application programmers.

Prerequisites

- Basic knowledge of electronics
- Basic knowledge of using a computer
- Course G331. Please refer to the accompanying figure for the course name and duration.

Description

This course belongs to a learning path. Please see the accompanying figure of possible learning paths. On request, this course can also be run for APC2 (Application Controller).

Course Objectives

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

- Program AC80 using the AdvaBuild program
- Test and trace faults in application programs

Main Topics

- Hardware and software requirements of the PC
- Overview of AdvaBuild programming
- AdvaBuild installation
- AC80 system software installation
- Directory structure
- Project structure in the PC software
- Building, testing and fault tracing of application programs using the FCB
- Creating, using, testing and fault tracing of type circuits
- Overview of function blocks, cycle times and programming guidelines
- System rebuild using backups
- Back-translating APC programs into the AC80
- Communication between controllers, drives, control panels and field instruments

ABB University Finland, Helsinki Training Center Helsinki.abbuniversity@fi.abb.com www.abb.com/abbuniversity



Course agenda

Low voltage drives trainingABB University Finland, Helsinki Training Center

Helsinki.abbuniversity@fi.abb.com www.abb.com/abbuniversity

G340

Function chart builder (FCB) programming for advant controller AC80

Day 1		16:00	End of day 1
09:00	Welcome and introduction	Day 2	
09:20	System presentation: Advant Controllers in general and Advant Controller AC 80	08:30	Project/Target maintenance Copy/Backup/Restore Backup with copying
	Exercise		Exercises
09:40	Training equipment overview AC 80	10:00	Coffee break
	S800 I/OI/O boxAF 100 bus	10:15	Type Circuit Setup Overview Project/Target structure Example of Usage
10:00	Coffee break	12:00	Lunch
10:15	System structure Hardware System software packages of the AC 80 Exercises	13:00	Type Circuit cont Exercises
44.00		14:00	Coffee break
11:20	Installation and start-up of the FCB Installation Start-up Main menus	16:00	End of day 2
12:00	Lunch		
13:00	 Project target system set-up/Directory structure Function Chart Builder / Working modes DB elements generally HW configuration of the AC80 by DB-elements Example of usage 		
14:00	Coffee break		
14:15	 Target control Translate commands On-line editing/measuring/forcing + Exercises 		



Course agenda

G340

Function chart builder (FCB) programming for advant controller AC80

Day 3

08:30 Setting up connections

- DriveBus
- ModuleBus (electrical/optical)
- Advant Fielbus 100 (AF100)
- CDP 80 panel
- FieldBus adapters
- Special I/O's
- 09:30 Exercises
- 10:00 Coffee break
- 10:15 Exercises continue
- 12:00 Lunch
- 13:00 Exercises
- 14:00 Coffee break
- 14:15 Exercises continue
- 16:00 End of the course

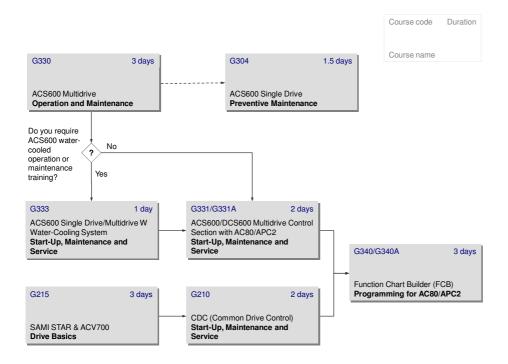
Low voltage drives training

ABB University Finland, Helsinki Training Center Helsinki.abbuniversity@fi.abb.comwww.abb.com/abbuniversity



Learning Paths

ACS600 multidrives Learning paths



Low voltage drives training

ABB University Finland, Helsinki Training Center Helsinki.abbuniversity@fi.abb.com www.abb.com/abbuniversity

