

Course description

G3861e

ABB Automation Builder and ACS880/DCX880 drive application programming

Course type

Internet course

Course Duration

The course duration is approximately 3 hours.

Course Goal

This course goal is to teach the basics of ACS880 and DCX880 drive IEC programming using ABB Automation Builder.

Student Profile

This course is intended for programmers who wish to learn drive IEC programming and people who wish to have a deeper understanding of the capabilities of the ABB Automation Builder programming environment. You should have a basic knowledge of ACS880 and DCX880 drives and Drive composer pro, and basic level of programming knowledge.

Prerequisites

- G3860e – ABB Automation Builder and drive application programming, Internet course
- G376e - Drive composer pro fundamentals, Internet course
- Basic knowledge of the ACS880 primary control program (such as G380e - ACS880-01 industrial drive technical details, Internet course)
- An Internet connection. The recommended browser is Microsoft Internet Explorer.

Course Objectives

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

- Perform drive IEC programming with ABB Automation Builder and ACS880 and DCX880 drives
- Understand the programming environment capabilities

Main Topics

- Application programming, the drive programming environment
- Installing Automation Builder
- Creating a project, communicating with the drive, application download
- Parallel use of ABB Automation Builder and Drive composer pro
- The IEC 61131-3 standard, and general information about drive programming languages
- Program Organization Unit (POU) types, data types
- Structured Text and CFC language principles, basic programming operators and statements, calling POUs
- Drive resources (memory, CPU), compiling options, debugging
- Mapping parameters with the Drive interface
- Features such as task configuration, the Build log, source code download, symbol files, project archives, project protection, device update
- Libraries included in ABB Automation Builder, managing and installing libraries, library repository, user-defined libraries
- User parameters and events, and using them in an application

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