

G560 DCS 800 Basic Course

Course Description



Course Duration

The duration is 3,5 days.

Course Type

Interactive training in a training room. Real devices for demonstration exercises are available.

Course Goal

The DCS 800 is a digital converter for speed and torque control of DC-drives with nominal currents from 25A up to 5150A and nominal supply voltages from 220V up to 1200V. The course goal to teach the DC basics in theory and how to design, start-up, adjust, operate and maintain the DCS 800 digital converter and how to do trouble shooting. The use of the programming tool Drive Window Light is trained by practical exercises.

Student Profile

Electricians, technicians and engineers who, planing a DC Drive, installing and servicing DCS 800.

Prerequisites and Recommendations

Basic knowledge of DC-drives engineering.

Course Objectives

Upon completion of the course, the student will be able to Commission, tune and operate the DCS 800, Implement small applications
Trace and correct faults

Main Topics

Control and operation principles of DC converters
DCS 800 hardware
DCS 800 software
Using of the control panel
Parameter setting and programming
Locating and identifying the terminals of different processes
Making proper terminations
Initial converter start-up and commissioning
Setting up small applications with Drive Window Light –AP Program
Replacing cards and components
Fault-tracing and trouble-shooting methods



Course description

G561

DCS800 Hands-on training, Hardware, software, start up

Course Duration

The course duration is 1.5 Days

Course Type

This is a classroom course led by an instructor.

Course Goal

The goal of this course is to exercise the start up procedure of DCS800 for converter module size D1 – D4.

Student profile

This course is intended for electricians, technicians and engineers who install, commission and service DCS800 Drives

Prerequisites

Prior to attending this course, students should have

- Basic knowledge of DC Fundamentals (G570e; G575e)
- Experience in using PC in the Windows environment
- Course G560e web course completed.
- Course G560 class room training completed

Course Objectives

Upon completion of the course, students will be able to

- to install the DCS800 modules
- to commission the DCS800 modules
- to trace faults in DCS800 modules
- understand the internal field excitation

Main Topics

- Module rating
- Components of D1 to D4 module
- Interface board - PIN-4
- Controller board – CON-4
- DCS800 control panel
- Commissioning of DCS800
- Drive Window Light exercises
- Software exercises
- Implementing small applications with Drive Window Light AP
- How to connect a DCS800 to a Field bus application
- Usage of the Communication board COM-8
- Fault tracing in DCS800 modules
- Maintenance and spare parts of DCS800 modules

Low voltage drives training

ABB University Germany
jenny.scharf@de.abb.com
www.abb.com/abbuniversity

Power and productivity
for a better world™

