

# **G320 – DCS500**

## **Operation and Maintenance**



### **Course Type**

Classroom course

### **Course Duration**

The course duration is 3 days.

### **Course Goal**

The goal of this course is to teach students to operate, maintain, troubleshoot and repair DCS500 digital DC converters.

### **Student Profile**

This course is intended for electricians, technicians or engineers who install and service DCS500 converters.

### **Prerequisites**

- Basic knowledge of electronics
- Experience in using a Windows PC

### **Description**

This course belongs to a learning path. Please see the accompanying figure of possible learning paths.

### **Course Objectives**

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

- Commission and tune the converter
- Trace and correct faults

### **Main Topics**

- Control and operation principles of DC converters
- Component and board functions
- Reading and interpreting circuit diagrams
- DCS500 software
- Using the operator control panel
- Parameter setting and programming
- Locating and identifying the terminals of different processes
- Making correct terminations
- Initial converter start-up and commissioning
- Fine-tuning the converter
- Replacing boards and components
- Fault tracing and troubleshooting methods

## DC Drive Learning Paths

Course code	Duration
Course name	

G320 3 days

DCS500  
**Operation and Maintenance**

G530 3 days

DCS600  
**Operation and Maintenance**

G230 2 days

DCV700  
**Operation and Maintenance**

