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

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<th>Duration</th>
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<td>G320</td>
<td>3 days</td>
<td>DCS500 Operation and Maintenance</td>
</tr>
<tr>
<td>G530</td>
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<td>DCS600 Operation and Maintenance</td>
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<tr>
<td>G230</td>
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<td>DCV700 Operation and Maintenance</td>
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