Course description

G190
ACSM1 machinery drive, startup and service hands-on

Course type
This is a classroom course with hands-on lab activities supported by an instructor. Before this course the theory based e-learning courses G190e, G107e and G063e need to be studied.

Course Duration
The course duration is 1 day.

Course Goal
The goal of this course is to teach students to install, start-up, adjust, operate, ACSM1 single drives.

Student Profile
This course is intended for motion control orientated electricians, technicians, and engineers who install, operate and service ACSM1 single drives.

Prerequisites
- Basic knowledge of electronics
- Experience in using a Windows PC
- E-learning courses G190e, G107e and G063e
Please refer to the accompanying figure for course names and durations.

Description
This course contains hands-on ACSM1 exercises. Any of the exercises can be replaced with optional Profibus exercise. Please inform Training Center 1 week before course if you would like to do Profibus exercise.

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

Course Objectives
Upon completion of this course, students will be able to:
- Commission and tune ACSM1 single drives
- Operate and maintain ACSM1 single drives

Main Topics
- Hardware and software overview
- ACSM1 standard application program
- Control panel functions
- Converter commissioning
- Fine tuning of the converter
- Installation principles
- Encoder connections
- Optional equipment connections
- Profibus (optional)
- DriveStudio commissioning and maintenance tool operations
Course agenda

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Day 1

08:30 Course Information
08:45 ACSM1 Drives
09:00 Exercise 1
10:20 Coffee break
10:35 Exercise 2
12:00 Lunch
12:45 Exercise 3
14:10 Coffee break
14:25 Exercise 4
15:45 Course evaluation
16:00 End of the day
Learning Paths

ACSM1
Learning paths

<table>
<thead>
<tr>
<th>Course code</th>
<th>Duration</th>
<th>Course name</th>
</tr>
</thead>
<tbody>
<tr>
<td>G191e</td>
<td>1 hour</td>
<td>ACSM1 Machinery Drive Fundamentals for Service Internet course</td>
</tr>
<tr>
<td>G190e</td>
<td>3 hours</td>
<td>ACSM1 Machinery Drive Features Internet course</td>
</tr>
<tr>
<td>G190</td>
<td>1 day</td>
<td>ACSM1 Machinery Drive Startup &amp; Service Hands-On Training</td>
</tr>
<tr>
<td>G191</td>
<td>1.5 days</td>
<td>ACSM1 Machinery Drive Motion Control Hands-On Training</td>
</tr>
<tr>
<td>G192</td>
<td>1 day</td>
<td>ACSM1 Machinery Drive SPC programming Hands-On Training</td>
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</tbody>
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Legend:
- Course code
- Duration
- Course name

* The duration of the Internet courses depends on personal professional background and study pace