

COURSE DESCRIPTION

# G191

## ACSM1 Machinery Drive, Motion Control Hands-on



### Course Type and Description

This is a classroom course with hands-on lab activities supported by an instructor. Before this course the classroom G190 and the theory-based e-learning courses G191e, G195e and G063e need to be studied.

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.



### Main Topics

- ACSM1 standard motion control features
- Positioning
- Homing
- Synchronizing
- Cyclic correction
- Encoder connections
- Profibus (optional)
- DriveStudio commissioning and maintenance tool operations



### Prerequisites

- Basic knowledge of electronics
  - Experience in using a Windows PC
  - Courses G190, G195e and G191e.
- Please refer to the accompanying figure for course names and durations.



### Course Duration

The course duration is 1.5 days.



### Student Profile

This course is intended for motion control orientated electricians, technicians, and engineers who commission, operate and service ACSM1 single drives with motion control applications.



### Course Goal

The goal of this course is to teach students to adjust, operate ACSM1 single drives with motion control applications.



### Course Objective

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

- Commission and tune ACSM1 single drives with motion control applications

**Day 1**

08:30 Course Information  
08:45 Exercises  
10:30 Break  
10:45 Exercises  
12:00 Lunch  
12:45 Exercises  
14:15 Break  
14:30 Exercises  
16:00 End of the Day

**Day 2**

08:30 Exercises  
10:00 Break  
10:15 Exercises  
11:30 Course Evaluation  
12:00 Lunch

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