

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

Low voltage drives training

ABB University Finland, Helsinki Training Center
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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

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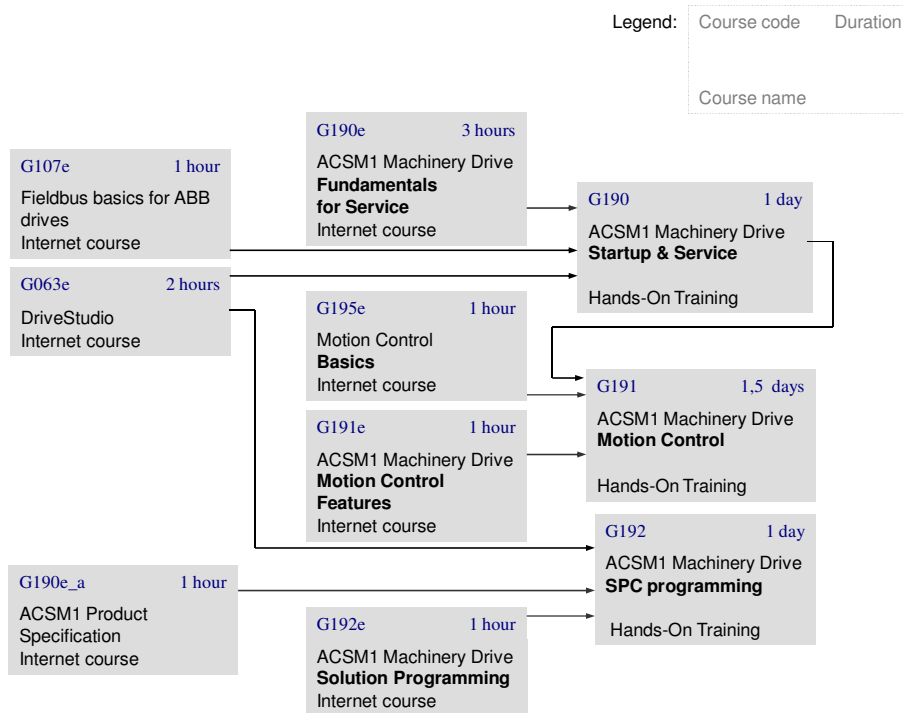
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Learning Paths

ACSM1

Learning paths



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