

G3852

Encoder safety functions with FSO and FSE safety encoder interface module

Course type and description

The ACS880 functional safety configuration with FSO learning event comprises of two parts: e-learning courses and classroom course.

This is the second part of the learning event: a classroom course with hands-on lab activities supported by an instructor. This course contains hands-on safety exercises. Mandatory exercises have to be done for ABB safety certification.

The first part of the learning event includes the theory based e-learning courses mentioned below. Please note that the e-learning course material is not covered during the classroom course. You are required to complete the e-learning part before the classroom part, which is essential in order to be able to succeed in the hands-on lab activities during classroom days. The status of e-learning course completion is monitored.

Prerequisites

- Basic knowledge of electronics
- Experience in using a Windows PC
- G3851
- E-learning course G3852e, G3853e and G3854e

Course duration

The course duration is 0.5 day.

Student profile

This course is intended for electricians, technicians, and engineers who configure and service ACS880 drives with FSO option.

Course goal

The goal of this course is to learn how to use basic software features of encoder safety functions with pulse encoder, FSO and FSE –modules, ACS880 primary control program and Drive tool.

Course objectives

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

- Configure and measure ACS880 drives values for safety applications with encoder
- Use Drive composer pro tool safety features
- Commission and test ACS880 drive with safety application with encoder

Main topics

- Encoder safety parameters using Drive composer pro tool
- Connections for FSO and FSE modules
- SSM function with encoder
- SDI function with encoder
- SMS function with encoder

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Here you will find two different agendas, A and B. Please check from your enrollment announcement message whether your course starts in the afternoon or in the morning.

Program A:

12:00 Lunch
13:00 Course Information
13:15 Exercises
14:15 Coffee break
14:30 Exercises
15.45 Course evaluation
16:00 End of the day

Program B:

09:00 Course Information
09:15 Exercises
10:15 Coffee break
10:30 Exercises
11:45 Course evaluation
12:00 Lunch
13:00 End of the day