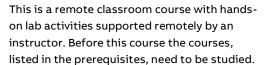# G3852V

Encoder Safety Functions with FSO and FSE Safety Encore 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 a remote classroom course with hands-on lab activities supported remotely by an instructor. Before this course the courses, listed in the prerequisites, need to be studied.

This course contains hands-on safety exercises and remote video instructions/support. Mandatory exercises have to be done for ABB safety certification.

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.

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.

Student equipment

At least one ACS880 democase/demorack, FSO-21 module installed, FSE-31 module installed with Encoder cabling, PC with drive composer pro program and USB C-mini cable are mandatory. Two students can work together with equipment.

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 Objective

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

Prerequisites

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

Programme A

13:00	Course Information, equipment presentation
13:30	Exercise
14:15	Coffee Break
14:30	Exercises
16:30	End of the Course

Programme B

09:00	Course Information, equipment presentation
09:15	Exercises
10:15	Coffee Break
10:30	Exercises
12:30	End of the Course

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