Course description

**G3854e**
Configuring ACS880 cabinet-built safety options with the FSO module, Internet course

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**Course type**
Internet course

**Course Duration**
The course duration is approximately 30 minutes.

**Course Goal**
The goal of this course is to give an overview of how to configure ACS880 cabinet-built safety options with the FSO module.

**Student Profile**
This course is intended for ABB service engineers.

**Prerequisites**
- G3850e – FSO fundamentals, Internet course
- G3851e – FSO configuration, Internet course
- G3853e - Introduction to ACS880 cabinet-built safety options with the FSO module, Internet course
- Recommended: G111e – ACS880 functional safety overview, Internet course
- An Internet connection. The recommended browser is Microsoft Internet Explorer.

**Notes**
If you have no experience of working with drives, it is highly recommended to take a hands-on course in addition to this course, to be able to utilize the drive to its full potential.

**Course Objectives**
After this course, you will be able to describe:
- The functionality of cabinet-built safety options
- Uses of I/Os with different options.
- How the standard options are preconfigured (e.g., +Q979)

You will also know how to:
- Verify customer STO circuits onsite using FSO LED indications
- Do the follow up actions:
  - Back up FSO configuration
  - Test the whole circuit after FSO change
  - Give a report and parameters to customer
  - Place a report to an ABB system (e.g., Drives Installed Base)
- Use FSE-31 pulse encoder interface module with FSO-21 safety functions module
- Use PROFIsafe with FSO

**Main Topics**
**Single drive:**
- +Q972/Q973 (FSO module only, no FS-options)
- +Q972/Q973+Q979 (E-stop with STO)
- +Q972/Q973+Q978 (E-stop with MCB)
- +Q972/Q973+Q950 (POUS)
- +Q972+Q965 (SLS with encoder)
- +Q972/Q973+Q971 (ATEX with FSO)
- +Q972/Q973+Q982 (PROFIsafe)
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Main Topics
Multidrives:
- +Q972/Q973 (FSO module only, no FS-options)
- +Q972/Q973+Q979 (E-stop with STO)
- +Q972/Q973+Q950 (POUS)
- +Q972/Q973+Q966 (SLS without encoder)
- +Q972+Q965 (SLS with encoder, with FSO-21)
- +Q972/Q973+Q971 (ATEX with FSO)
- +Q972/Q973+Q982 (PROFsafe)