COURSE DESCRIPTION

9CSC006268
Functional safety hands-on with FSPS-21 and STO testing (G3859), Hands-on

Course Type and Description
This functional safety learning event comprises of two parts: e-learning courses and classroom course.

This is the second part of the learning event, which is 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 and hands on 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.

Course Goal
The goal of this course is to learn how to do commissioning and testing of PROFINET IO and PROFISAFE for drives.

Make STO circuitry Acceptance test and Safety Reporting

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

- Be able to commission and test ACSx80 products with FSPS-21
- Test and report STO acceptance.

Main Topics
- PROFINET IO and PROFISAFE, drive configuration ACS380, ACS580 and ACS880.
- ACS880/580/380 STO circuitry Acceptance test
- Safety Reporting

Course Duration
The course duration is 0.5 days.

Prerequisites
- Basic knowledge of electronics
- Experience in using a Windows PC
- G380 or 3881 and G3851
- E-learning course 9CSC006267e FSPS-21 safety functions fieldbus module fundamentals.

Student Profile
This course is intended for electricians, technicians, and engineers who configure and service ACS880 / ACS580 / ACS380 drives with FSPS-21 option.
## COURSE AGENDA

<table>
<thead>
<tr>
<th>Time</th>
<th>Group 1</th>
<th>Group 2</th>
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<tbody>
<tr>
<td>9.00</td>
<td>Introduction of the course</td>
<td>Introduction of the course</td>
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<tr>
<td>10.00</td>
<td>Break</td>
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<tr>
<td>10.15</td>
<td>Hands-on exercise: FSPS-21 safety validation</td>
<td>Hands-on exercise: Safety Reporting</td>
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<tr>
<td>10.45</td>
<td>Hands-on exercise: ACS880/580/380 STO circuitry Acceptance test</td>
<td>Hands-on exercise: PROFINET IO and PROFISAFE, drive configuration ACS380, ACS580 and ACS880</td>
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<tr>
<td>11.30</td>
<td>Hands-on exercise: Safety Reporting</td>
<td>Hands-on exercise: FSPS-21 safety validation</td>
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<tr>
<td>12.00</td>
<td>Lunch</td>
<td>Lunch</td>
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<td>End</td>
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9.00 Introduction of the course

9.15 Hands-on exercise: PROFINET IO and PROFISAFE, drive configuration ACS380, ACS580 and ACS880.

10.00 Break

10.15 Hands-on exercise: FSPS-21 safety validation

10.45 Hands-on exercise: ACS880/580/380 STO circuitry Acceptance test

11.30 Hands-on exercise: Safety Reporting

12.00 Lunch

End