Course description

G582e – DCS550 Winder application Internet Course (EN)

Course Duration

3.0 hours, depending on personnel knowledge

Course type

This course includes self-study material, self-assessment questions and interactive exercises. The language of the course is English.

Course Goal

The goal of this course is to understand the DCS550 winder application in terms of selection, configuration and commissioning.

The training covers the following topics:

- Winder fundamentals
- DCS550 winder basic settings
- DCS550 winder commissioning

Student Profile

- Product engineers and
- Engineering people
  who are planning, installing and servicing DC converters.

Prerequisites and Recommendations

The student should have:

- Basic knowledge about electrical wiring
- Basic knowledge of DC drives engineering
- Physical understanding for winder application

Preparation e-Learning courses

- G570e – DC Fundamentals
- G581e – DCS550 Basics

prior to attending this course.

Course Objectives

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

- Know the features of the DCS550 single drive
- Application area for this drive
- Know the DCS550 design and basics
- Understand the DCS550 control structure
- Perform drive commissioning by using DriveWindow Light

Main Topics

- What is a winder?
- Winder physics like torque calculation, diameter calculation and loss compensation
- Different control concepts for winders

- DCS550 winder concept
- Winder control
- Winder function blocks
- Control of the entire winder application
- Possibilities for commissioning
- Winder assistant and autotuning
- Winder program modification with additional function blocks connected to the winder macro

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