

G563e- DCS800 Winder application – Internet course

Winder basics, Description of DCS800 Winder Application Template



Course Type

Internet course

Course Duration

The course duration is approximately 1 day depending on personal background knowledge and study pace.

Course Goal

The goal of this course is to teach students the basics of a Winder and how to commission a Winder with DCS800 Winder application template.

The training covers the following topics:

- Winder basics
- DCS800 Winder Application Template

Student Profile

This course is intended for electricians, technicians, and engineers who install, operate and service DCS800 Winders.

Prerequisites

- Knowledge about DCS800
- Experience in using a computer and Internet browser. The recommended browser is Microsoft Internet Explorer version 5.0 or later.
- An Internet connection

Description

This course includes self-study material, self-assessment questions and interactive exercises.

Course Objectives

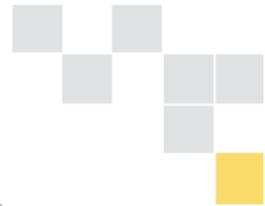
Upon completion of this course, students will be able to:

- Understand the principle functionality of a winder
- Commission a DCS800 with Winder Template

Main Topics

- Meaning of “winding”
- Winder physics
- Important terms for a winder
- Distinguish between control concepts
- Indirect Tension Control / Indirect Torque Control
- Winder structure diagram
- Handling of tension reference
- Diameter calculation
- Acceleration torque
- Velocity control part
- Friction compensation
- Loss compensation
- Inertia calculation
- Calculate basic values
- Set-up basic values

Course Specifications



DC Fundamentals

DC Technics G570 e

Portfolio G575 e

DCS800 Basics

DCS800 D1...D4 G560 e
 • DCS800 Hardware c
 • Firmware Structure
 • Software Tools

DCS800 D5...D7 G561 e
 • DCS800 Hardware c

Advanced Courses

CoDeSys Programming G562 e
c

Large Drives G568 e
c

Cranes G567 e
c

Revamp / Rebuild G566 e
c

Sales / Marketing

DC-Market G571 e
c

Channel Management G572 e
c

Dimensioning G573 e
c

e e-learning c classroom
 G5xx course number

Workshops

CoDeSys Professional G562 e
c

CoDeSys Winder G563 e
c

CoDeSys Non-motoric applications G564 e

Customer's PLC G565 e

