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

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