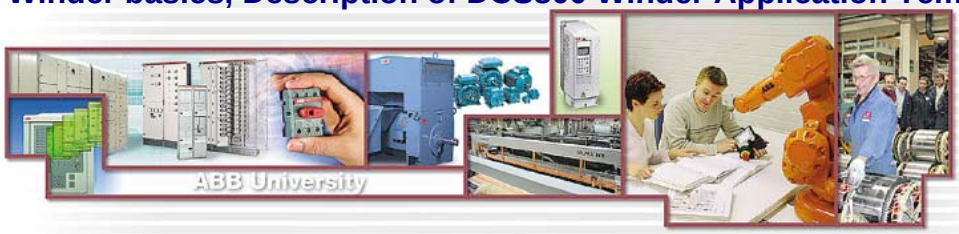
# G563e– DCS800 Winder application – Internet course

## 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