

# G568e- DCS800 Large DC Drives – Internet course

## 12-pulse-technology, Hard-Parallel-configurations, Master-Follower



### Course Type

Internet course

### Course Duration

The course duration is approximately 0,5 day depending on personal background knowledge and study pace.

### Course Goal

The goal of this course is to teach students the basics of Large DC drives and typical drive configurations.

The training covers the following topics:

- DCS800 configuration opportunities
- DCS800 Master-Follower configuration

### Student Profile

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

### Prerequisites

- Knowledge about DCS800
- Experience with commissioning of 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:

- Know typical DC drive configurations for big power
- Know typical Master-Follower configurations with DCS800

### Main Topics

- What are Large DC drives
- Hard-parallel configurations
- 12-pulse-technology
- 12-pulse serial, parallel, sequential and quasi 12-pulse configurations
- Field exciter for Large DC drives
- High speed DC breaker
- Galvanic isolation
- Intermediate reactor (T-reactor)
  
- Types of Master-Follower drives
- Speed and torque (current) control
- Firmware structure for Master-Follower
- Communication via SDCS-DSL-4
- Settings for DSL-4 communication
- Communication via SDCS-COM-8
- Settings for COM-8 communication

# 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

