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

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