G567e – DCC800 Crane Drive – Internet course
DCS800 Crane Drive Application

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 DCC800 Crane Drive Application.

The training covers the following topics:

- Crane Drive Basics
- Basic Crane Drive features and functions

Student Profile
This course is intended for electricians, technicians, and engineers who install, operate and service crane applications.

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.

It is recommended to do the exercises with a demo unit to understand the functionality.

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

- Understand different kinds of crane types
- Know safety functions of a crane system
- See difference between crane control concepts

Main Topics
- Types of crane drive systems
- DCS800 Crane Drive Functions
- Ordering of crane application software
- Parameter overview of hoisting parameters
- Software hierarchy
- Stand-alone and fieldbus control
- Crane Control Logic
- Functionality of the brake logic
- Special brake functions
- Snag load protection
- Power optimization
- Reference handler
- Master-follower configuration
- Shared Motor control
- Fault and alarm messages

ABB