G175
ACS800 Single Drive Crane Control Program (+N697), Operation and Programming

Course Type and Description
Classroom course.

This course belongs to a learning path that may utilize blended learning. Please see the accompanying figure for possible learning paths.

Course Duration
The course duration is 2 days.

Student Profile
This course is intended for electricians, technicians, and engineers, who commission, install, operate and service ACS800 with Crane Control Program application software and sales people.

Course Goal
The goal of this course is to teach students to:

1. Understand motions of hoists, trolleys and long travels in different industrial cranes such as gantry, boom and tower cranes
2. Perform basic dimensioning of crane drives
3. Program and modify crane applications made by using the Crane Control Program.

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

- Describe different industrial crane systems
- Crane drive basic dimensioning
- Describe safety functions
- Describe Crane Control Program features
- Make settings and start-up to the Crane Control Program

Main Topics
- Crane basics and terminology
- Basic dimensioning of crane drive
- Safety control
- Control and reference interfaces
- DriveAP with the Crane Control
- Brake control logic
- Load speed control
- Master/Follower and shaft synchro control
- Speed match and Speed monitoring
- Service counters
- Hands-on exercises

Prerequisites
Either course G152 or G156 (or equivalent knowledge). For course names and durations, please refer to the accompanying figures of learning paths.
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