

COURSE DESCRIPTION

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.



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



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.



Prerequisites

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



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

Day 1

08:30 Course Information
08:35 Exercises
09:30 Break
09:35 Exercises
12:00 Lunch
13:00 Exercises
14:15 Break
14:30 Exercises
16:00 End of the Day

Day 2

08:30 Course Information
08:35 Exercises
09:30 Break
09:35 Exercises
12:00 Lunch
13:00 Exercises
14:15 Break
14:30 Exercises
15:30 Feedback & End of the Course

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