Course Description

G170
ACS800 drive
Motion control

Course Duration
The course duration is 2 days.

Course type
This is a classroom course with hands-on lab activities supported by an instructor.

Course Goal
The goal of this course is to teach students to install, start-up, adjust, and operate ACS800 Motion Control drives.

Student Profile
This course is intended for electricians, technicians, and engineers who design, install, operate and service ACS800 Motion Control drives.

Prerequisites
- Basic knowledge of electronics
- Experience in using a Windows PC
- Course G152 or G156 or G160 or G161.

Please refer to the accompanying figure for course names and durations.

Description
The course contains theory part and hands on exercises with ACS800 Motion Control units.

This course belongs to ACS800 single drive and ACS800 multivdrive with Control Section learning paths that may utilize blended learning. Please see the accompanying figure of the learning paths.

Course Objectives
Upon completion of this course, students will be able to:
- Commission and tune ACS800 Motion Control drives
- Activate and tune the features of ACS800 Motion Control drives

Main Topics
- Hardware
- Options
- Software overview
- Positioning
- Teach in
- Synchronising
- Electronic gear
- Cyclic corrections
- Cam Disk
- Homing
- Tuning of the Motion Control converter
- Installation principles
- DriveWindow commissioning and maintenance tool measurements for Motion Control drive
Course agenda

G170

ACS800 drive

Motion control

Day 1

08:30  Introduction of the course
08:45  Motion Control introduction
10:00  Break
10:15  HW
10:40  Options
12:00  Lunch
13:00  SW overview, Positioning
14:00  Break
14:15  Synchronising, Homing, Installation
16:00  End of day 1

Day 2

08:30  Positioning Exercise
10:00  Break
10:15  Homing & teach in exercise
12:00  Lunch
12:45  Synchronisation exercise
14:00  Break
14:15  Cyclic correction & electric gear and Cam Disk Exercises
16:00  End of the course
Would you like to take a course via the Internet?

- Yes
  - ACS800 Single Drive Fundamentals Internet course
  - ACS800-01,-02,-04,-11 Single Drive Start-Up & Service Hands-On Training
  - ACS800-07,-17,-37 Single Drive Start-Up & Service Hands-On Training

- No
  - ACS800 Drives DriveAP Programming
  - ACS800 Drives Motion Control
  - ACS800 Drives Intelligent Pump Control
  - ACS800 Drives Winder/Inline Control
  - ACS800 Drives Template Control
  - ACS800 Drives PCP/ESP & Rod Pump Control

Do you have knowledge of ACS600 single drives?

- Yes
  - ACS800 liquid-cooled drives Internet course
  - ACS800 liquid-cooled drives Hands-On Training

- No
  - ACS800 Multidrive Fundamentals Internet Course
  - ACS800 Multidrive Start-Up & Service Hands-On Training
  - ACS800 Multidrive Control Section AC800M Operation and Maintenance

* The duration of the Internet courses depends on personal professional background and study pace