HC900: Fundamentals – Controller Implementation

Course Overview
Course number: HC-0003
Course length: 2 days

Need to plan and implement your HC900 and interface with other device (HMI)?

This course provides participants the ability to perform the following tasks as applicable to the HC900:

- Programming skills. This includes studying the Function Blocks (FB) and setting the activation into FB, downloading/uploading and monitoring the program.
- Configure the HC900. This includes setting time, communication (serial, Ethernet), calibration for AI/AO.
- Interface HC900 with HMI. This includes exporting a report (register map to pre-set), how to use.
- Profile data setting. This includes setting and applying the Setpoint Profile, Setpoint Schedule, and Recipe.

The course is divided into two sections. The first day introduces HC900 controller with the system and presents the Function Blocks and configuration of FBs on HC Designer.

The second section exercises some projects for training with example-programs. Participants will build and configure the HC900.

Course Benefits
Understand the System made by HC900, implement some project and access the data for maintenance.

- Decide a concept for the customer’s requirements and understand the functions of HC900
- Design and configure the functions on HC Designer for HC900

Course Delivery Options
- In-Center Instructor-Led Training
- On-Site Instructor-Led Training

Who Should Take This Course?
- Application Engineers who will construct the system (Furnace, HVAC)
- Engineers who need to understand process control and construct the system of heat-treat and HVAC
- System Maintenance Engineers responsible for the operation and monitoring of the system (Process Controller), required to change the profile data, and check the status of process

Prerequisite/Skill Requirements
Prerequisite Course(s)
- None

Required Skills and/or Experience
- None

Desirable Skills and/or Experience
- Plant Process Control System tag knowledge

Course Topics
You will learn HC900 how to...

- Recognize the role of the major hardware and software components and learn how data flows in HC900
- Decide the concept of Process Control, HVAC, Furnace
- Use the HC Designer for configuration
- Configure communication and access the process data
  - Configuration of communication and access the process data
  - Connection between HC900 and other device
- Configure the HC900 for Process Control functionality such as:
  - Other Controllers thru FB
  - Alarm Settings on FB
  - Data Logging periodically
  - Use the PC-base or local HMI
- Setpoint Profiles, Schedules, and Recipes
- Local HMI, use HCiX series
Additional Training

To increase your knowledge and skills, there are additional courses available from Automation College.

For more information and registration, visit www.automationcollege.com.