M408
DCI System Six Standard Controlware II, Composer CTK, and Basic 800xA for DCI Console Configuration

Learn to configure and program the DCI System Six Harmony DCU3200 controller and 800xA Process Portal Console.

Course type and methods
This is an instructor led workshop with short presentations and demonstrations, extended exercises, and hands-on sessions and discussion.

Student Profile
This course is targeted to DCI System Six support personnel responsible for DCI system software database maintenance and/or responsible for DCI system logic configuration.

Prerequisites
Students should have basic control system experience.

Course objectives
Upon completion of this course the participants will be able to:
• Identify major components of DCI System Six
• Configure the Harmony DCU3200 On-Line
• Configure the Harmony DC3200 Off-Line using the Configuration Tool Kit (CTK)
• Identify major components of System 800xA
• Navigate the 800xA Process Portal Console
• Create 800xA Graphics and Graphical Elements
• Set up 800xA historical data collection and configure trend displays
• Backup and restore the DCI and 800xA system

Main Topics
• Configuring the Harmony DCU3200 for continuous type process control using Controlware II modules
• Programming the Harmony DCU3200 using CCL (Controlware Command Language) for special continuous control applications
• Configuring the Harmony DCU3200 for batch type process control using Controlware II modules (introduction)
• Saving and reloading Harmony DCU3200 databases
• Maintaining a Harmony DCU3200 Database offline using relational database forms and tools.
• Using CTK: Easily copy, modify, delete, and manage Controlware II module configuration and control logic
• Using CTK: Using the Tag Manager and list all tags meeting user-defined criteria
• Using CTK: Reducing system downtime by off-line database logic configuration
• Navigating 800xA console
• Configuring 800xA graphics
• Configuring 800xA historical database and trending
• Understanding 800xA alarm and event presentation and features

Duration
The duration is 10 days
Course Outline

Day 1

- DCU3200 Overview
- I/O Modules
  - Input Output Board
  - Analog Input/Analog Output
  - Discrete Input/Discrete Output
  - CIO/PBUS
- Continuous Control Modules
  - Calculation
  - Control
  - Totalizer
  - Discrete Modules
  - Discrete Control Device
  - MultiState Device Control
  - Timer
  - State

Day 2

- Miscellaneous Modules
  - Boolean Logic Module
  - Parameter
  - Pointer Table Block
  - Custom Control Modules
  - CCM
  - Phase
  - Controlware II Command Language

Day 3

- Controlware II Command Language (Continued)
- Data Dictionary
  - Module Mix
  - Atom Properties

Day 4

- Introduction to batch modules
  - Module SET
  - Sequence
  - Mini Sequence
  - Pseudo Devices
  - Security
  - Device Test Module

Day 5

- Introduction to batch modules
  - Module SET
  - Sequence
  - Mini Sequence
  - Pseudo Devices
  - Security
  - Device Test Module

Day 6

- CTK Features
  - Security
  - Creating Projects
- Hardware Configuration
  - Harmony
  - Profibus Network
  - S800 I/O
- Visual Module Configuration
- Tag Manager
- Importing and Exporting
  - ALD files
  - CSV files
- Individual module and/or function block downloading
- On-line Monitoring
- DCU Diagnostics and Troubleshooting
- System Level
- Board Level
- Console Overview
- User Interface

Day 7

- Building ALD Files
- Loading ALD Files
- Starting the DCU
- CCL Editor
- On-line Configuration
- Data Dictionary
- Backup/Restore
- DCU Manager
- Network Status
- DCU Resident Configuration

Day 8

- Individual module and/or function block downloading
- On-line Monitoring
- DCU Diagnostics and Troubleshooting
- System Level
- Board Level
- Console Overview
- User Interface

Day 9

- System 800xA Architecture
- 800xA Process Portal
- Features and Navigation
- Display types
  - Graphic Displays
  - Trend Displays
  - Faceplates
  - Alarm/Event/Message

Day 10

- Console Configuration
- Logging in/out
- Alarm Organization
- Historical Data
- Trending
- Quick and Context keys
- PG2 Graphics Display Editor

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