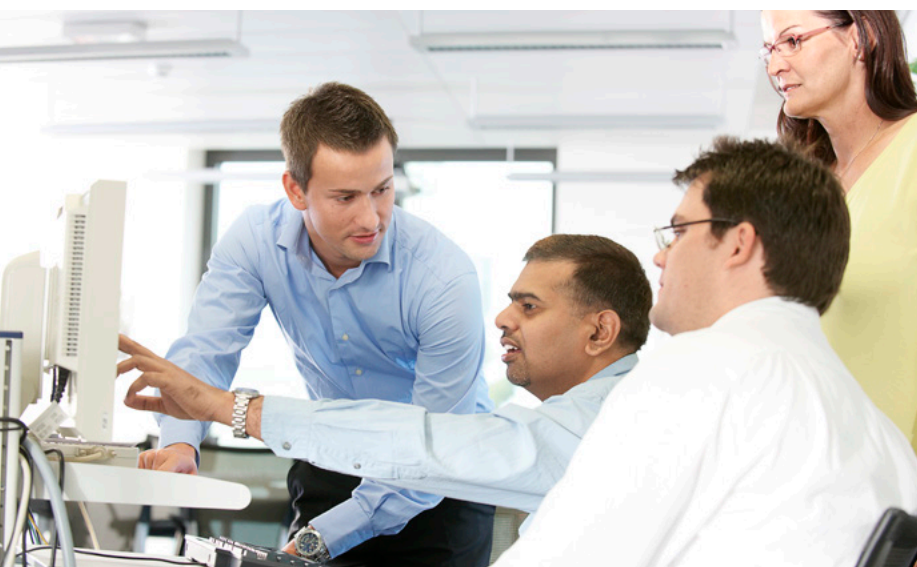


## M409

# DCI System Six Standard Controlware II, Composer CTK, and Conductor NT Console Configuration



Learn to configure and program the DCI System Six Harmony DCU3200 controller and Conductor NT 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)
- Navigate the Conductor NT Console
- Create Graphics and Graphical Elements
- Set up the historical data collection and configure trend displays
- Configure security user accounts
- Backup and restore the Conductor 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
- Identifying hardware and system fault conditions
- Identifying current software revision levels and license keys
- Understanding alarm and event presentation and features
- Managing Login accounts and security
- Configuring historical database and trending
- Configuring graphics and submodels

### Duration

The duration is 10 days

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**Course Outline**

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Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none"><li>• DCU3200 Overview</li><li>• I/O Modules<ul style="list-style-type: none"><li>- Input Output Board</li><li>- Analog Input/ Analog Output</li><li>- Discrete Input/ Discrete Output</li><li>- CIO/PBUS</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Continuous Control Modules<ul style="list-style-type: none"><li>- Calculation</li><li>- Control</li><li>- Totalizer</li></ul></li><li>• Discrete Modules<ul style="list-style-type: none"><li>- Discrete Control Device</li><li>- MultiState Device Control</li><li>- Timer</li><li>- State</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Miscellaneous Modules<ul style="list-style-type: none"><li>- Boolean Logic Module</li><li>- Parameter</li><li>- Pointer Table Block</li></ul></li><li>• Custom Control Modules<ul style="list-style-type: none"><li>- CCM</li><li>- Phase</li></ul></li><li>• Controlware II Command Language</li></ul>	<ul style="list-style-type: none"><li>• Controlware II Command Language (Continued)</li><li>• Data Dictionary<ul style="list-style-type: none"><li>- Module Mix</li><li>- Atom Properties</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Introduction to batch modules<ul style="list-style-type: none"><li>- Module SET</li><li>- Sequence</li><li>- Mini Sequence</li><li>- Pseudo Devices</li><li>- Security</li><li>- Device Test Module</li></ul></li></ul>
Day 6	Day 7	Day 8	Day 9	Day 10
<ul style="list-style-type: none"><li>• CTK Features<ul style="list-style-type: none"><li>- Security</li><li>- Creating Projects</li></ul></li><li>• Hardware Configuration<ul style="list-style-type: none"><li>- Harmony</li><li>- Profibus Network</li><li>- S800 I/O</li></ul></li><li>• Visual Module Configuration</li><li>• Tag Manager</li><li>• Importing and Exporting<ul style="list-style-type: none"><li>- ALD files</li><li>- CSV files</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Building ALD Files</li><li>• Loading ALD Files</li><li>• Starting the DCU</li><li>• CCL Editor</li><li>• On-line Configuration</li><li>• Data Dictionary</li><li>• Backup/Restore</li><li>• DCU Manager<ul style="list-style-type: none"><li>- Network Status</li><li>- DCU Resident Configuration</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Individual module and/or function block downloading</li><li>• On-line Monitoring</li><li>• DCU Diagnostics and Troubleshooting<ul style="list-style-type: none"><li>- System Level</li><li>- Board Level</li></ul></li><li>• Console Overview<ul style="list-style-type: none"><li>- User Interface</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Conductor NT Features<ul style="list-style-type: none"><li>- Logging in/out</li><li>- Display types<ul style="list-style-type: none"><li>- Graphics</li><li>- Trends</li><li>- Summary</li><li>- Group</li><li>- Point</li></ul></li><li>- Alarm/Event/Message</li><li>- Utilities</li><li>- System and User Help</li><li>- Quick and Context keys</li></ul></li></ul>	<ul style="list-style-type: none"><li>• Console Configuration<ul style="list-style-type: none"><li>- Alarm Organization</li><li>- Security</li><li>- Areas</li><li>- Hierarchical Displays</li><li>- Historical Data</li><li>- Trending</li><li>- Logs</li><li>- Messaging</li><li>- Quick and Context keys</li><li>- Graphix Display Editor</li><li>- Graphics</li><li>- Submodels</li></ul></li></ul>

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