

# T530 Compact Control Builder AC 800M Configuration

## Course Description



### Course Duration

The duration is 5 days.

### Course Type

This is an instructor led course with interactive classroom discussions and associated lab exercises. Approximately 50% of the course is hands-on lab activities.

### Course Goal

The goal of this course is to learn the engineering of a complete control project running in AC 800M controllers using Compact Control Builder.

### Student Profile

This training is targeted to system and application engineers, commissioning and maintenance personnel, service engineers and system integrators.

### Prerequisites and Recommendations

Students shall know the fundamentals of working with Control Systems and have basic knowledge of Windows XP.

### Course Objectives

Upon completion of this course, students will be able to:

- Install the Compact Control Builder software
- Create a new control project and plan the structure of application programs
- Configure the AC 800M hardware and corresponding I/O's
- Define task and describe the assignment rules

- Upgrade the controller firmware, download and test an application
- Design and configure application programs by using a variety of IEC 61131-3 languages
- Develop project specific libraries
- Setup communication using various protocols
- Analyze the controller diagnostics and optimize the CPU load / memory usage
- Configure alarm and events
- Backup / restore the complete Control Project
- Generate project documentation and work in a multi-user environment

### Main Topics

- Compact Products 800 overview
- Getting started
- Control Project
- AC 800M hardware
- Download
- Libraries
- Variables and data types
- Function Block Diagram
- Structured Text
- Task assignment / Memory
- User defined object types
- Control Modules
- Sequential Function Charts (SFC)
- Communication
- Optimization
- Backup / restore





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### Course Outline

Day 1	Day 2	Day 3	Day 4	Day 5
<ul style="list-style-type: none"> <li>• Course overview</li> <li>• Compact Procuts 800 overview</li> <li>• Getting Started</li> <li>• Control Project</li> <li>• AC 800M hardware</li> <li>• Download</li> </ul>	<ul style="list-style-type: none"> <li>• Libraries</li> <li>• Variables and data types</li> <li>• Function Block Diagram</li> <li>• Structured Text</li> </ul>	<ul style="list-style-type: none"> <li>• Task assignment and Memory</li> <li>• User defined Function Block types</li> <li>• Control Modules</li> </ul>	<ul style="list-style-type: none"> <li>• Control Modules</li> <li>• Sequential Function Charts (SFC)</li> <li>• Communication</li> </ul>	<ul style="list-style-type: none"> <li>• Alarm handling</li> <li>• Optimization</li> <li>• Backup / restore</li> <li>• Mscellaneous</li> </ul>

