

# Integrated Architecture

CONTROLLOGIX / INTEGRATIE POWERFLEX 525 DRIVE / INTEGRATIE CIP MOTION /  
GUARDLOGIX

## COURSE AGENDA

### Day 1

- Identifying Components of the Integrated Architecture System
- Establishing Communications with an Integrated System
- Creating and Organizing a Studio 5000 Logix Designer Project
- Creating a Periodic Task

### Day 2

- Organizing Arrays
- Creating a User-Defined Data Type
- Communicating With a Local 1756-I/O Module
- Identifying Programming Languages Within an Integrated System
- Drive Programming with the New PowerFlex® 520-Series AC Drive (LAB)

### Day 3

- Basic Configuration of a Integrated Motion System (LAB)
- Configuring a Logix 5000 Controller to Produce and Consume Data

### Day 4

- Configuring Controllers and Modules to Communicate and Share Data over an EtherNet/IP Network
- Retrieving and Setting Controller Status Values with GSV and SSV Instructions
- Configuring a Logix 5000 Message

### Day 5

- Developing an Add-On Instruction in a Ladder Diagram
- Configuring CompactBlock Guard I/O Safety Modules for a GuardLogix Project
- Configuring GuardLogix Controller Safety Options
- Programming a Dual-Channel Input Stop Instruction
- Programming a Configurable Redundant Output Instruction



## TRAINING: OEM100

### Doel van de training

Na het volgen van deze cursus bent u in staat :

- Een ControlLogix controller te programmeren
- Een Powerflex 525 toe te passen in combinatie met een ControlLogix systeem
- Een ControlLogix Motion Control (CIP Motion) systeem toe te passen met een ControlLogix systeem
- Een GuardLogix Controller te configureren en meest gebruikte instructies te programmeren

Door de compactheid van deze training zal de deelnemer op hoofdlijnen worden geïnformeerd. Voor detailinformatie zal de deelnemer de beschikbare programmeer en/of instructie manuals raad moeten plegen of een gedetailleerde training op het betreffende onderwerp moeten volgen.

**Aan het programmeren van de ControlLogix controller en van de GuardLogix wordt de meeste aandacht besteed.**

### ***Voor wie is de trainig bedoeld***

Ingenieurs, technici, en andere personen die in staat moeten zijn ControlLogix-applicaties te ontwikkelen alsmede GuardLogix moeten ontwikkelen en/of ervaren ingenieurs, technici, en andere personen op het gebied van Frequentie regelaar - of Motion Control toepassingen die hier zullen ervaren hoe deze systemen geïntegreerd zijn in een ControlLogix besturingsomgeving.

### ***Verwachte voorkennis***

Wij verwachten dat de cursist vlot Microsoft Operating Systemen gebruikt. Verder verwachten we van de deelnemers dat deze een redelijke algemene kennis heeft op het gebied van PLC technologie. Kennis van Frequentie regelaars of Motion Control is een pre.

### ***Student Materials***

To enhance and facilitate your learning experience, the following materials are provided as part of the course package:

- *Student Manual*, which contains the key concepts, definitions, and examples presented in the course and includes the hands-on exercises.

### ***Hands-On Practice***

Throughout this course, you will have the opportunity to practice the skills you have learned through a variety of hands-on exercises. These exercises focus on the skills introduced in each lesson.

You will also have the opportunity to combine and practice groups of key skills by completing two integrated practices during the course.

### ***Hands-On Practice (cont.)***

To complete the exercises, you will use several dedicated workstations. Because the basic skills taught in the course apply to all Logix 5000 platforms, you can then apply what you have learned to the specific platform that you use in your plant.

### ***Next Learning Level***

Once you have mastered the maintenance and troubleshooting skills covered in this course, you may want to attend specific network maintenance training, such as:

- *ControlLogix CIP Program Design (CCN144 – A)* course
- *FactoryTalk View ME (CCV204)* course
- *Optix-VIS150 (VIS150)* course

### ***Course Length***

This is a 5-day course.

### ***Course Number***

The course number is OEM100.

### ***To Register***

To register for this or any other Rockwell Automation training course, contact your local authorized Allen-Bradley Distributor or your local Sales/Support office for a complete listing of courses, descriptions, prices, and schedules.

You can also access course information via the Web at <http://www.rockwellautomation.com/training>

**[www.rockwellautomation.com](http://www.rockwellautomation.com)**

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