



*Training Course:
Honeywell DCS C300*

16 - 27 November 2025

Dubai (UAE)

Residence Inn by Marriott Sheikh Zayed Road, Dubai

Training Course: Honeywell DCS C300

Training Course code: EN236174 From: 16 - 27 November 2025 Venue: Dubai (UAE) - Residence Inn by Marriott Sheikh Zayed Road, Dubai Training Course Fees: 8400 € Euro

Introduction

The Honeywell Experion DCS C300 Controller is a powerful platform widely used in process industries to provide robust automation, safety, and control solutions. This 12-day intensive training program, developed by Global Horizon Training Center, provides hands-on and theoretical knowledge on configuring, operating, troubleshooting, and maintaining Honeywell's Experion PKS with C300 controllers. Participants will gain essential skills in system architecture, logic configuration, communication setup, alarms, and diagnostics—all critical for maximizing the system's performance and reliability in real-world industrial settings.

Objectives

By the end of the training, participants will be able to:

- Understand Honeywell Experion PKS architecture and C300 controller components.
- Configure C300 hardware and I/O modules.
- Develop and deploy control strategies using Control Builder.
- Integrate field instruments and communication protocols.
- Perform system diagnostics, troubleshooting, and routine maintenance.
- Manage alarms, trends, history, and operator interface elements HMI.

Target Audience

- DCS and process control engineers
- Instrumentation and automation engineers
- Maintenance and reliability technicians
- Electrical engineers involved in control systems
- SCADA/DCS operators and control room supervisors
- System integrators and control consultants

Organizational Impact

Organizations that send participants will benefit from:

- Improved DCS system reliability and uptime
- In-house capability to troubleshoot and configure C300 systems
- Enhanced operator efficiency and reduced control system errors
- Faster integration of field devices and system upgrades
- Lower reliance on external vendors for routine tasks

Training Outline

Day 1: Overview of Honeywell Experion PKS & C300 Architecture

- Introduction to Honeywell Experion system
- Hardware components: C300, FIM, IOTA, PMIO
- Experion architecture: FTE, ACE, EPKS, HMIs
- Controller and station roles in the system

Day 2: System Installation and Hardware Setup

- C300 controller installation
- Mounting and wiring of IOTA and FIM modules
- Redundancy and power requirements
- System startup and hardware checks

Day 3: Control Builder Overview and Basic Configuration

- Introduction to Control Builder and Experion Engineering Tools
- Creating a new project
- Configuring C300 controllers and control modules

- Upload/download procedures and version control

Day 4: I/O Configuration and Channel Assignments

- Adding and configuring I/O modules
- Digital and analog input/output setup
- Field device addressing and calibration
- Simulated I/O and diagnostics

Day 5: Control Strategy Implementation Part 1

- Basic control logic using FBD Function Block Diagram
- PID loop configuration
- Arithmetic, comparison, and logic blocks
- Parameter tuning and loop testing

Day 6: Control Strategy Implementation Part 2

- Sequencing, interlocking, and motor control logic
- Use of setpoints, status, and permissive conditions
- Cascade and ratio control strategies
- Simulation of control strategies

Day 7: HMI and Operator Interface Configuration

- Creating and editing HMI graphics
- Alarm groups and control faceplates
- Trends, history, and real-time data visualization
- Operator interaction with control loops

Day 8: Communication Configuration and Field Integration

- Profibus, Modbus, OPC, Ethernet IP integration
- Adding field devices to the network

- Configuring FIM and network health monitoring
- Redundant communication and diagnostics

Day 9: Alarm Management and Event Handling

- Alarm configuration in Control Builder
- Alarm priorities and suppression logic
- Event and alarm logging
- Alarm KPI monitoring and optimization

Day 10: System Diagnostics and Troubleshooting

- C300 diagnostics and status monitoring
- Using system logs and engineering tools for fault tracing
- Redundancy failures and recovery
- Troubleshooting common hardware and logic issues

Day 11: Maintenance, Backup & Security Management

- Preventive maintenance tasks for C300 systems
- Firmware updates and software patches
- User access control and system security
- Backup and recovery of configurations and trends

Day 12: Final Workshop

- Full system configuration case study
- Controller and I/O setup
- Logic creation and fault injection scenario
- Wrap-up, discussion

Registration form on the Training Course: Honeywell DCS C300

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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3 Oudai street, Aldouki,
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