

Experion LX: Fundamentals – Configuration, Graphics Building and Control Strategy Implementation



Course Overview

Course number: ELX-0001

Course length: 4.5 days

Need to design and implement your Experion LX System?

This course provides participants the ability to perform the following Experion LX System tasks:

- Choose the correct Station/C300 Controller and Series 8 I/O modules for your application
- Build Basic control strategies using Experion LX Control Designer software to create Function Block Diagrams
- Use Station Designer software to configure basic HMI to provide an operator interface

The course presents the C300 Controller and Engineer/Direct /Flex Station hardware platforms and both configuration software packages. It includes hands-on lab exercises where students develop Function Block diagrams and Control Station configurations using Experion Control Designer and Station Designer software.

The course is divided into three sections. It covers the C300 Controller and its I/O Modules, Engineer/Direct/Flex station and user graphic.

Course Benefits

Students will gain an understanding of the Experion LX system architecture, configuration methods and commissioning tools to:

- Design/Implement the Experion LX System
- Understand and use function blocks to configure the control strategies for the customers
- Understand and use Engineer/Direct/Flex Station and operator interface to satisfy the process

Course Delivery Options

- In-Center Instructor-Led Training
- On-Site Instructor-Led Training

Who Should Take This Course?

All System Integrators or system engineer who are responsible for the Sales, System Designing and System Configuration for Experion LX system and Engineer/Direct/Flex Station.

Prerequisite/Skill Requirements

Prerequisite Course(s)

- None

Required Skills and/or Experience

- Prior experience configuring process control systems
- Working knowledge of Windows 7

Desirable Skills and/or Experience

- Basic networking knowledge
- Basic Distributed Control System knowledge

Course Topics

You will learn how to...

- System Architecture Overview (Big Picture & Major Data Flow)
- Choose the proper Experion LX hardware for your application
 - Fault Tolerance Ethernet overview
 - Engineer Station overview
 - Direct Station overview
 - Flex Station overview
 - C300 Controller
 - Series 8 IOM
- Choose the proper Experion LX software for your application
 - Configuration Studio
 - Control Builder
 - HMIWeb Display Builder
- Principle of Control Builder
- Control Strategy configuration

Course Topics continued

- C300 Controller Configuration
- Series 8 IOM Configuration
- CDA Control Module Configuration
- PID Control Module Configuration
- DevCtl (Device Control) Control Module Configuration
- Sequential Control Module Configuration
- Station Configuration
 - History assignment
 - History archiving
 - History archiving management
 - Trend/ operation group configuration
- Develop your Experion LX operation interface
 - User graphic principle
 - Use HMIWeb Display Builder to design user graphic
- System Security
 - Station-based security
 - Operator-based security

Additional Training

To increase your knowledge and skills, there are additional courses available from Automation College.

For more information and registration, visit www.honeywellprocess.com/en-US/training.