

## EXPERION LX: PLANNING, DESIGN, CONTROL CONFIGURATION, AND C300 CONTROLLER IMPLEMENTATION

### COURSE OVERVIEW

**Course Number:** ELX-0004C3

**Course Duration:** 5 Days

**Prerequisite Course (s):** None

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

- Learn Experion LX Server and Station installation procedures
- Learn various Experion LX configuration tools
- Configure C300 controller with its I/O modules
- Build Basic control strategies using Experion LX Control Builder software to create process control logic
- Use HMI Web graphic software to create basic operator displays for control

The course presents the C300 Controller and its I/O. It includes hands-on lab exercises where students develop Function Block diagrams using Experion LX Configuration Studio.

The course also presents building basic operator graphics with HMIWeb Display Builder.

The course is divided into three sections. It covers the C300 Controller, Experion LX Server and Station operations, and building basic operator graphics with HMIWeb Display Builder.

### Course Delivery Options

- Instructor-Led Training (ILT)
- Virtual Instructor-Led Training (VILT)

### COURSE OBJECTIVES

- Planning and design:
  - Experion System overview
  - Fault Tolerance Ethernet overview
  - Database overview
  - Process Server overview
  - Console Station overview
  - Flex Station overview
  - Network Time Protocol
- Enterprise and Asset Model and System Model implementation
- Function of a Domain Controller
- Installation of Experion LX Server and Station
- Distributed System Architecture
- Choose the proper Experion LX software as per your application:
  - Configuration Studio
  - Control Builder
  - HMIWeb Display Builder
- Principles of Control Builder
- Control Strategy configuration:
  - C300 Controller configuration
  - C300 hardware and I/O configuration
  - CDA Control Module configuration
  - PID Control Module configuration
  - DevCtl (Device Control) Control Module configuration with interlocks
  - ControlEdge PLC integration with C300 over CDA
  - Import and export control strategy
  - Describe Bulk Configuration tools
- ERDB Administration
- Develop your Experion LX operation interface:
  - User graphic principle
  - Use HMIWeb Display Builder to design a graphic user interface
- Collect data for GTAC