Course Overview

Course number:  FDS-0001
Course length:  5 days

Obtain the knowledge, skills and tools required to properly
Startup, Program, Commission, Operate and Maintain
XLS120, XLS140 and XLS3000 Fire and Gas Detection
Systems.

This Course will cover numerous topics to prepare attendees for
the tasks outlined above, including but not limited to:

- Fundamentals of Fire Detection Systems
- XLS System Hardware
- XLS System Programming
  - Front Panel Display
  - Verifire Tools
- XLS System Commissioning
- XLS System Operation
- XLS System Inspection and Maintenance

The course is designed to provide a comprehensive learning
experience through Interactive Lecture, Hands-on Lab Exercises
and Implementation of Practical Honeywell Process Solutions
type projects.

Course Benefits

You will acquire the necessary skills and knowledge to:

- Understand the Fundamentals of Fire Detection Systems – what they are and how they work
- Understand Basic Fire Codes and the Role of the Authority Having Jurisdiction (AHJ)
- Identify and Configure XLS Hardware and Field Devices
- Utilize Verifire Tools for Configuration and Programming
- Understand the information relayed through the Front Panel Displays
- Perform Startup and Commissioning Duties
- Perform System Inspections and Maintenance

Who Should Take This Course?

HPS Field Engineers responsible for Startup, Commissioning and
Maintenance of Honeywell XLS120, XLS140 and XLS3000 Fire
and Gas Detection Systems.

HPS Engineers responsible for assisting Senior Engineers with
programming, FAT, SAT and Site Implementation.

Customer End-users responsible for Oversight or Maintenance of
Fire and Gas Detection Systems.

Prerequisite/Skill Requirements

Prerequisite Course (s)

- None

Required Skills and/or Experience

- Basic Knowledge of Plant Operations
- Basic Computer Skills

Desirable Skills and/or Experience

- Understanding of or experience with Fire Detection Systems

Course Topics

Fundamentals of Fire Detection Systems

- Learn Basic Terminology used with Fire Detection Systems
- Learn about Codes, Standards and AHJ Requirements
- Learn the differences between Safety Systems and Fire Detection Systems
- Learn the types of circuits used in Fire Detection Systems and their electrical characteristics

XLS System Hardware

- Identify and Install XLS140 and XLS3000 Hardware in Standard Field Cabinets including Interconnection
- Identify and Install Field Devices
- Startup and Commission Lab Panels
- Learn to navigate Panel Display Menus and Understand the operational characteristics of the XLS System
Course Topics continued

XLS System Programming
- Learn what parameters can be adjusted from the Panel Display and what must be configured utilizing the Software Programming Utility – Verifire Tools
- Practice Loading Verifire Tools, Obtain and Install License and Configure Computer for proper use
- Utilize Verifire Tools to configure Lab Panels per provided Engineering Documents
- Utilize Verifire Tools to Network Lab Stations Together
- Understand the Concepts of Zoning, Logic Zone and Control By Event Programming and how they relate to standard Engineering Documents

Engineering Documentation
- Understand the Typical Engineering Documents provided with XLS Systems:
  - Typical System Drawings
  - C/E Matrix – Cause and Effect Matrix
  - SCD – Software Configuration Document
  - FAT – Factory Acceptance Test Procedure
  - SAT – Site Acceptance Test Procedure

Maintenance and Inspections
- Understand Basic System Maintenance Tasks
- Learn Requirements and proper Procedures related to scheduled Inspections as outlined in NFPA 72
- Learn and practice basic troubleshooting techniques
- Understand what Error Codes mean and how to respond when they are generated

Support Services
- Understand Where to locate information related to XLS Fire and Gas Detection Systems
- Identify Who to call for Assistance
- Learn When it is appropriate to call for assistance and what information will need to be provided when calling in

Additional Information
This is a Fundamentals Course providing introductory and basic knowledge as well as Programming and Implementation hands-on practical exercises. This training class covers the product training required to obtain Fully Licensed access to Verifire Tools, upon successful completion of the course.

Each Attendee will receive the following Materials to take with them into the field:
- Class Documentation Delivered Electronically
- XLS Programming Cable
- Class Workbook for notes and pertinent information – Please note that this is a Reduced-Paper Course and full product manuals will be provided electronically only
- NFPA Fire Alarm Signaling Systems Handbook
- NFPA Pocket Guide to Fire Alarm and Signaling System Installation

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