HMI/SCADA iFIX Fundamentals

Instructor-led

Topics
- Understand communication between iFIX SCADA Servers and iClient nodes.
- Configure iFIX nodes using the System Configuration Utility.
- Configure I/O Drivers & OPC Servers to communicate with iFIX.
- Create and modify Process Database tags.
- Create graphic screens (pictures) using a wide variety of object types and animations.
- Design and build a picture navigation strategy.
- Create basic scripts using Visual Basic for Applications (VBA).
- Configure alarming and create screens to monitor and acknowledge alarms.
- Use trending to monitor both real-time and historical data.
- Design a system-wide security strategy.
- Use a variety of iFIX Utilities and OS tools to troubleshoot project or system process faults.

Course description
The iFIX Fundamentals course is designed to provide a good working knowledge of iFIX. All major features are covered, from project configuration to data acquisition and visualization. Valuable hands-on lab exercises are provided to guide students through the building and modification of an HMI/SCADA application from top to bottom.

Who should attend?
This course is designed for process, automation or instrumentation engineers and system integrators who will be developing, configuring and using applications on an iFIX system.

Are there any pre-requisites?
Participants should have a working knowledge of Windows operating systems. Control system exposure and experience is recommended.

Duration
32 hours

Delivery
Instructor-led, classroom, virtual or onsite

Part #
44A728312-154

Suggested class size
10 Students

Course Schedule
Click here for the latest details and schedule.
GE Digital

Session 1
Introduction to iFIX
Study the basic features and architecture of iFIX.

System Configuration Utility
Configure an iFIX node, including networking, tasks, and alarm services.

Session 2
I/O Drivers
Install, configure, and monitor I/O Drivers, especially v7 OPC Servers.

Introduction to the Database Manager
Use the Database Manager to rapidly build a Process Database.

Session 3
Digital Database Tags
Use the Database Manager to create Digital Input and Digital Output tags.

Analog Database Tags
Use the Database Manager to create Analog Input and Analog Output tags.

Session 4
Introduction to the Workspace
Begin with orientation to the iFIX Workspace, picture documents and development tools.

Graphic Objects
Begin building displays using links, shapes, dynamos and other graphic tools.

Session 5
Data-Entry and Control
Create user interactive controls in displays.

Globals
Create global variables and tables.

Animations
Create visual cues and enrich information delivery by linking objects to real-time data.

Session 6
Scripting with VBA
Using Visual Basic for Applications to extend picture functionality.

View Displays and Forms in both the Client and Vision.

Archiving Data
Archive process data using an Historian.

Picture Navigation
Create a picture navigation strategy.

Session 7
Trending
Create pictures to monitor real-time and historical data.

Tag Groups
Using Tag groups for optimized development.

Alarming
Build displays to monitor alarm information.

Session 8
Security
Design and implement a security strategy.

Troubleshooting
Use iFIX and Operating System utilities to troubleshoot application elements.

EDGE Learning Portal
EDGE is Education@GE.

It's our learning platform hosted on the web.

Around the world. Around the clock.

Visit the EDGE
Browse our public catalog
Request an account today

EDGE Learning Portal
EDGE is Education@GE.

It's our learning platform hosted on the web.

Around the world. Around the clock.

Visit the EDGE
Browse our public catalog
Request an account today

Contact Information
GE Digital — Education Services
1 800 433 2682
Email: training.ip@ge.com
EDGE: click here
web: click here

About GE
GE (NYSE: GE) is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive.

GE is organized around a global exchange of knowledge, the "GE Store," through which each business shares and accesses the same technology, markets, structure and intellect. Each invention further fuels innovation and application across our industrial sectors. With people, services, technology and scale, GE delivers better outcomes for customers by speaking the language of industry.

Contact Information
Americas: 1-855-YOUR1GE (1-855-968-7143)
georgialge.com
www.ge.com/digital

©2015 General Electric. All rights reserved. *Trademark of General Electric. All other brands or names are property of their respective holders. Specifications are subject to change without