HMI/SCADA iFIX Advanced

Instructor-led

Topics

- Integrate iFIX with OPC servers and Clients
- Advanced configuration with Database Blocks
- Integrate iFIX with Historian
- Integrate iFIX with Relational Databases (RDBs)
- Use VisiconX to build graphical RDB tools for users
- Extend iFIX Alarm systems to RDBs and Historian
- Master Dynamo creation and maintenance
- Work with ActiveX components
- Develop schedules to automate workflows and processes
- Drive reports with iFIX
- Configure Server Fail-over and Redundancy
- Prepare iFIX for use with Terminal Server

Course description

iFIX Advanced concentrates on the skills and knowledge required to extend the core functionality of iFIX. In addition, there are a range of topics that discuss the integration of iFIX applications with external systems such as historians, relational databases, office and reporting applications as well as other automation applications .

Who should attend?

This course is designed for developers responsible for building and implementing full-featured iFIX HMI/SCADA systems. These topics focus on integration and programming and will be beyond the needs of most casual users .

Are there any pre-requisites?

Completion of iFIX Fundamentals is a prerequisite for taking this course. Prior exposure to programming (in any language) is of benefit as is prior exposure to relational databases and SQL .

Duration
32 hours

Delivery
Instructor-led, classroom, virtual or onsite

Part
44A728312-251

Suggested class size
10 Students

Course Schedule
Click here for the latest details and schedule.

GE Digital

Session 1

Review iFIX

Review the basic features and functions of iFIX.

Review iFIX Architecture & Applications

Walk through the essentials of iFIX applications and the system architecture.

Introduction to OPC

Find out more about the OPC communication methods available to industrial control applications.

Session 2

OPC Clients

Learn more about the myriad ways of using OPC to connect iFIX sub-systems as data clients of other applications.

OPC Servers

Learn more about the myriad ways of using OPC to configure iFIX sub-systems as data servers.

Session 3

Database Tags Redux

Delve deeper into the Process Database and the blocks available to iFIX SCADA applications.

Integrate iFIX with Historian

Learn about the tools available for seamlessly integrating iFIX to Historian, including tools for both providing and retrieving data.

Session 4

Integrate iFIX with Relational Databases

Find out how iFIX can interoperate with relational databases for both read and write transactions.

Use iFIX Database blocks with Relational Databases

Build the necessary infrastructure to communicate to RDBs at real-time via database blocks and services.

Session 5

Use Workspace to access RDBs

Combine programmatic and graphical methods within the Workspace to interact with RDBs.

Use VisiconX to access RDBs

Build interactive displays to access RDBs using simple, graphical, wizard-based controls.

iFIX Alarm Archiving

Explore the different methods of archiving alarms to external systems for further analysis.

Session 6

Deploying ActiveX in iFIX

Create interactive user controls in displays.

Mastering Charts and Chart Groups

Extend trending functionality with extra developer know-how.

Dynamo Creation and Maintenance

Build easily maintained symbol libraries. Explore how to use them to maximize functionality while minimizing

Session 7

Schedules

Build schedule to automate routine tasks.

Elementary Reporting

Discover how to extend iFIX to meet your reporting needs.

Session 8

Enhanced Failover

Walk through the iFIX Enhanced Failover features create high availability SCADA systems.

Supplemental Topics

Integrating Change Management

iFIX with Terminal Services

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)

gedigital@ge.com
www.ge.com/digital