

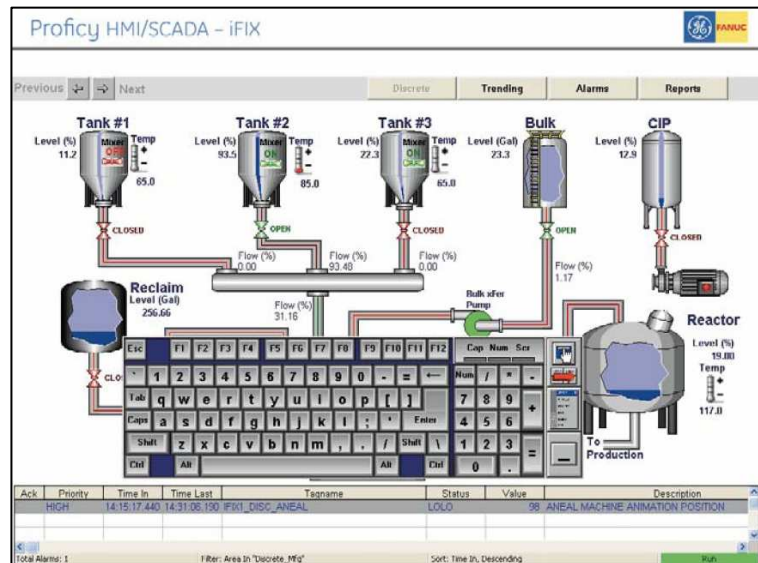
# PROFICY HMI/SCADA iFIX FUNDAMENTALS (iFIX 154)

## COURSE DESCRIPTION

The Proficy HMI/SCADA iFIX Fundamentals course is designed to provide a good working knowledge of iFIX. Valuable hands-on lab exercises are provided which guide students through the building and modification of the HMI application.

## 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.



## PREREQUISITES

Participants should have a working knowledge of Windows 2000, Windows NT 4.0, and/or Windows XP operating systems.

## WHAT TASKS WILL BE TAUGHT IN THIS CLASS?

Upon completion of this Course, the student will be able to:

- Understand architecture communication between iFIX SCADA Servers and iFIX iClient nodes.
- Configure iFIX nodes using the System Configuration Utility.
- Configure I/O Drivers to communicate with iFIX.
- Create and modify standard 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 and build a system wide security strategy.
- Use a variety of iFIX Utilities and Operating System administrative options to troubleshoot project or system process faults.

## COURSE FEE

The course fee is \$1995 USD. This includes four days of classroom training, use of CB Engineering's training computers, course manuals and lunch all four days.



## COURSE AGENDA

This is a four day course. Classes run from 8:30am until 4:30pm with a one-hour break for lunch.

### Architecture

Basic Architecture  
Distributed Architecture

### System Configuration Utility

Paths and Alarms  
Network and Tasks

### I/O Drivers

Installing I/O Drivers  
Configuring I/O Drivers

### Version 6.x I/O Drivers

Configuring v.6.x Drivers  
Monitoring v.6.x Drivers

### Version 7.x I/O Servers

Configuring v.7.x Servers  
Monitoring v7.x Servers

### Introduction to Graphics

iFIX Workspace  
Picture Development

### Intro to the Process Database

Database Tags  
Database Manager

### Digital Database Tags

Digital Input Tag  
Data Output Tag

### Graphics Objects

Property Windows  
Expression Builder

### Analog Database Tags

Analog Input Tag  
Analog Output Tag

### iFIX Workspace

Workspace Configuration  
Electronic Documentation  
Toolbars and Dynamos

### Animation Objects

Animation Experts  
Animation Dialog Box

### Understanding Globals

Global Variables  
Global Tables

### Using Schedules

Time Based  
Event Based

### Using the Process Database

Database Manager  
Program Tag

### Introduction to Scripting

Visual Basic for applications  
Sample Scripts

### VBA in iFIX

Using the Visual Basic Editor  
VBA versus Program Tag

### Secondary Database Tags

Calculation Tag  
Event Action Tag

### Real Time Trending

Extended Trend Tag  
Chart Object

### Alarming

Alarming Strategies  
Alarming Summary Object

### Archiving Process Data

Historical Assign  
Historical Collection  
Historical Files

### Displaying Historical Data

Chart Object

### Crating Reports with iFIX

Excel Reports, Access Reports  
Crystal Reports

### Displaying Reports

Web Browser  
Access, Excel  
Scheduling Reports

### Active X

Active X Technology  
Using ActiveX Controls

### Addition Database Tags

Analog Register Tag  
Digital Register Tag

### Optimization

Picture Optimization  
Driver Troubleshooting  
Network Troubleshooting

### Security

Security Strategy  
Security Configuration

## COURSE DATES

Please visit our website at [www.cb-pacific.com](http://www.cb-pacific.com) for upcoming dates of all courses, and to register on-line. Alternatively, you can contact us at [info@cbeng.com](mailto:info@cbeng.com) or by phone toll-free at 1 (800) 992-2364.