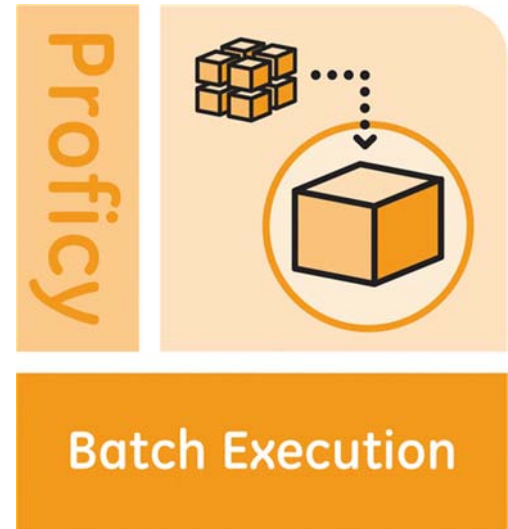


Proficiency Batch Execution Fundamentals

Course Description

The **Batch Execution Fundamentals** course is designed to provide a good working knowledge of the Proficiency Batch Execution product. This course includes lab time for configuring and applying Batch Execution development tools to process applications. The student moves through the development of an application that uses many components of the software.



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 a Proficiency Batch Execution system.

Are There Any Prerequisites?

Participants should have a working knowledge of Windows operating systems. Completion of **iFIX Fundamentals** course is very helpful! Familiarity with relational databases and the ISA S88.01 standard is also helpful.

What Tasks Will Be Taught in This Class?

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

- Understand architecture communication between Batch Execution Server and Client nodes.
- Create new projects and configure the Batch Execution Server.
- Configure the Batch Execution Archiver and Publisher.
- Create an Equipment Configuration, including Area, Process Cells, Units, Equipment Phases and Control Modules.
- Create recipes using Sequential Function Charts (SFC) in the Recipe Editor.
- Create Class-based recipes.
- Use the Batch Execution Client to monitor batch production.
- Understand how to use Batch Execution VBIS and ActiveX objects to monitor batch production.

Course Length

4 days

Suggested Class Size

10 students

Class Hours

8:00 am - 5:00 pm, daily



Course Agenda

(Schedule and content may vary.)

Day 1

Morning:

Batch Execution Introduction and Architecture

Learn about the structure of Batch Execution and the applications used to develop or maintain a functioning system.

S88 Introduction

Become familiar with the Batch industry standard upon which Batch Execution is based.

Afternoon:

Batch Execution Workspace

Get oriented to the main project explorer.

Creating and Managing Projects

Begin project development from scratch.

Data Servers and Enumerations

Connect to external data systems.

Day 2

Morning:

Equipment Configuration

Configure the Areas, Process Cells, Units, Shared units Phase Classes, Equipment Phases, and Equipment Phase Tags.

Afternoon:

Equipment Configuration

Configure Control Modules and Unit Tags.

Introduction to the PLI

This provides a quick orientation to the necessities of Phase Logic and the PLI.

Day 3

Morning:

Recipes and the Recipe Editor

Work with the Recipe Editor to build and deploy Batch Execution recipes.

Recipes II (& Sequential Function Charts)

Recipe Development and Parameters

Afternoon:

Class-based Development

Learn best practices and techniques for class-based application development.

Soft Phase Server and Soft Phases

Use Soft Phases for flexible Batch control strategies.

Day 4

Morning:

Batch Execution Server Manager

Explore troubleshooting tools and log files to track performance.

Client Essentials

Use a wide variety of Client tools to monitor the Batch Execution process.

ActiveX

Use internal and third-party components to create new ways of viewing Batch Execution data.

Afternoon:

VBIS

Learn about the Integration Services that allow for highly customized script access to the Batch Execution system.

Reporting

Work with a sample Batch Execution Report.

Security and eSignatures

Apply security and conform to 21 CFR 11 regulatory requirements.

