

## Proficiency Portal Development

### Course Description

This **Proficiency Real-Time Information Portal Development** course is designed to provide the student with a good working knowledge of RTIP. The material covers two broad categories of functions: Server-Administration tasks and Client-Visualization tasks. The course includes lab time for configuring and applying the RTIP software to data analysis applications for a variety of Proficiency and third-party data sources.



### Who Should Attend?

This course is designed for process, automation, or instrumentation engineers, system integrators and any other information technology (IT) professionals who will be developing, configuring, and using RTIP server and client components.

### Are There Any Prerequisites?

Participants should have a working knowledge of Windows operating systems. An understanding of Plant Historian, Relational Databases and OPC is very helpful.

### What Tasks Will Be Taught in This Class?

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

- Understand architecture and communication between the RTIP Server and web browser Clients.
- Install and configure an RTIP Server, including the configuration and building of a security strategy that is tightly bound to Windows security.
- Create client displays using datalinks, charts, grids, form components and other analysis objects.
- Connect to and retrieve data from a variety of data sources.

### Course Length

2 days

### Suggested Class Size

10 students

### Class Hours

8:00 am - 5:00 pm, daily



## Course Agenda

In general, the administration and client tasks are separate and can be grouped into distinct development roles or phases. To reflect this, the course has been divided into two main segments: 1) Server-based elements for administrators and 2) Client-based elements for users.

**H** denotes RTIP **Historian** Edition,

**E** denotes RTIP **Enterprise** Edition.

### Day 1

#### Server-based elements (for Administrators)

Server components, settings and user profiles (H)

RTIP Server security, SSL and Windows (H)

Historian data connectors – Proficy Historian, Cimplicity PE Data Logger, OSI PI Historian (H)

Enterprise data connectors – Relational Databases, Real-time OPC, iFIX, and Cimplicity PE (E)

Remote Interface (RIF) Servers (H)

SQL Statement Builder – SQL Schemas, Queries and Parameters (E)

Logging and troubleshooting (H)

### Day 2

#### Client-based elements (for Users)

Client tools and RTIP displays (H)

Historian displays (H)

Charts, grids and pen groups (H)

Time Components (H)

Real-time displays (E)

SQL displays and query controls (E)

Navigation, URLs and Commands (H)

Symbols and display templates (H)

Web Controls and Links (H)

