

Industrial Internet Foundations

Proficy Historian

Course Description

This short-form course will begin with your strengths – Proficy Historian knowledge and experience - and expose you to the infrastructure required for advanced Industrial Internet visualization and analytics. Proficy Historian-centric planning, provision and deployment strategies will be the core focus.

Along with lecture and demonstration, hands-on exploration and reinforcement are built into the activities.



Who should attend?

Senior engineering professionals who wish to learn how Proficy Historian can be extended from the controls and automation layer to site and enterprise-wide applications using Industrial Internet infrastructure.

Are there any prerequisites?

Minimum three years of engineering experience developing and deploying automation solutions with Proficy Historian. Experience with Proficy Historian open interfaces and data models is also recommended. Experience with GE's other Proficy solutions is an asset.

What topics will be covered in this course?

The following topics will be covered in this course:

- Proficy Historian in the context of the Industrial Internet
 - Data collection & storage scenarios and use cases
 - Solution Architectures
 - Infrastructure requirements
 - Asset Modeling and provisioning
 - Visualization and Advanced analytics
 - Security
- **Certification exam. *Industrial Internet Designer: Proficy Historian*.** Exam includes extensive testing on Proficy Historian acumen, as well as testing on Industrial Internet topics covered in the conference sessions.

Session Length

Approximately 5-6 hours

Suggested Session Size

Maximum of 20 students



Course Agenda

(Schedule and content may vary)

Session 1: Controls & Automation Layer

Description

An introduction to the technology, disciplines and data structuring that are required to prepare Proficy Historian applications for integration with Industrial Internet infrastructure.

The focus is on working at the automation level to extend Proficy Historian to new possibilities for data collection, classification and visualization.

Topics

- Proficy Historian in the context of the Industrial Internet
- Scenarios & use cases
- Data classification, organization, provision & visualization via Proficy Historian and Proficy Historian Analysis

Session 2: Site Layer

Description

A deeper exploration that looks at wider applications with broader client audiences. This includes centralizing storage at the plant level and provisioning data for cross-functional consumption.

The focus is on working at the site level to share plant information and metrics using new asset and KPI namespaces along with open client interfaces.

Topics

- Architected solutions and infrastructure requirements
- Tag namespace and data quality requirements and use cases
- Data integration, Alarm & Events and other data sources
- Data storage, management, provisioning and client access via Proficy Historian interfaces

Session 3: Centralized Layer - Industrial Internet

Description

Delving into Proficy infrastructure and technologies that take information with Proficy Historian origins to audiences that never use or see Proficy Historian. Discussion provides exposure to higher degrees of centralization, analysis and visualization via solutions such as Proficy Knowledge Center and Proficy Vision.

The focus is on extending distilled Proficy Historian data to applications and audiences that are removed from traditional automation and control scenarios.

Topics

- Enterprise solutions and infrastructure requirements
- Secure connectivity and data aggregation Use Cases
- Asset modelling and fleet visualization
- Big Data aggregation and Advanced analytics

Notes

CEUs: For purposes of awarding Continuing Education Units, these sessions will be documented with a detailed syllabus and permanent transcript records.

Certification: The certification exam will be held at the conclusion of the session. A large portion of this exam will cover the Proficy Historian knowledge and experience required in the prerequisites, with the rest to cover the topics in this session. Successfully passing this exam will result in a certification – **Industrial Internet Designer: Proficy Historian**.

