GE VERNOVA

Instructor-led Training

DIGITAL
PLANT APPLICATIONS FUNDAMENTALS

Topics

- Exploring the Plant Applications architecture and its components.

- Creating, configuring and implementing a Plant Model.

- Creating aggregate and custom calculations.

- Configuring Event Models.

- Configuring Production Unit Events and Activities.

- Defining and applying specifications.

- Applying alarm rules in Plant Applications.

- Using Plant Applications Web Displays (Activities Application and Alarms Application)

- Applying the Plant Applications Security Model.

Course Description

Plant Applications Fundamentals will cover how to configure and maintain Plant Applications software.

This course provides an introduction to essential Plant Applications administrator tasks and applications. This includes learning to configure the plant model, products, events and activities.

Navigating the Web Client and running Web Displays will also be covered. Valuable hands-on lab exercises are provided which guide students through the configuration of out-of-the-box solution capabilities.

Who should attend?

Administrators and power users of Plant Applications that are responsible for configuration and support of this Proficy Smart Factory solution.

Are there any pre-requisites?

Participants should have an understanding of manufacturing terminology and the role of industrial software. A general knowledge of MES is a benefit.

Time Commitment

24 hours

Delivery
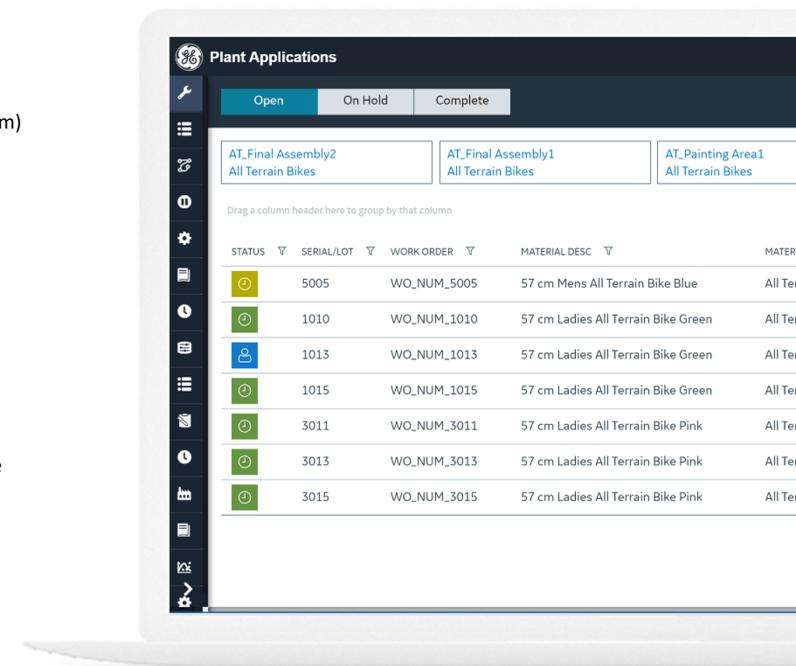
Instructor-led (distance-learning or classroom)

Part

44A728312-631

Level

Fundamentals

Course Schedule

Click here for the latest details and schedule

About GE Vernova

Building on over 130 years of experience and proven innovation, GE Vernova brings together and harnesses the collective power of GE's portfolio of energy businesses including Power, Wind, Electrification and Digital to focus on electrifying the world while simultaneously working to decarbonize it.

With focus, GE Vernova is accelerating the path to more reliable, affordable, and sustainable energy, while helping our customers power economies and deliver the electricity that is vital to health, safety, security, and improved quality of life.

www.gevernova.com

About GE Vernova's Digital Business

GE Vernova's Digital business is putting data to work to accelerate a new era of energy. We deliver the platforms and intelligent applications necessary to accelerate electrification and decarbonization across the energy ecosystem – from how power is created, how it is orchestrated, to how it is consumed. More than 20,000 customers around the globe use our software to help plan, predict, manage, and optimize operations today for a sustainable tomorrow.

www.ge.com/digital

Session 1

Introduction

Study the basic features and architecture of Plant Applications. Review Plant Applications' components and client tools.

Administrator

Review the server communication strategy and explore control services and microservices. Navigate the Administrator Client and discover the functions available with site parameters and server user parameters. Learn to configure data sources.

Plant Model

Configure Departments, Production Lines, Production Units and Variables. Learn to use the Import/Export tool. Add Variables, examine key variable properties and study time interval data logging.

Session 2

System Calculations

Learn how to acquire data from Process Historians,, and aggregate the data as needed. Examine sampling types and intervals.

User Defined Calculations

Create Calculations using the Equation Editor, VB Script, and Stored Procedures. Discover how to use User Defined calculation templates and the calculation library.

Session 3

Events

Learn about Events and Event Types while furthering your understanding of data context and detection. Configure Event Models and learn how to automatically detect Events in Plant Applications. Create a crew schedule while learning to use Model 801.

Production Events and Activities

Configure Production Event Type Variables and Production Events on Production Units while learning how to automatically detect them with an Event Model (Model 800). Define Event Statuses and transitions. Build and use Activities for event data logging while exploring Autolog client display and the Activities Web Client application options.

Product Management

Configure Products and assign them to Production Units. Explore Product Change Events. Learn how to configure Product Change Event Models 803 and 100.

Session 4

Specifications

Introduce the features of Plant Applications Quality Management. Describe the relationship of product information with specifications. Define quality and process specifications at Unit and Plant-wide levels. Explore client display specification settings and how to implement a test frequency.

Alarms

Discover how to setup alarming conditions based on data points outside of their specification limits. Define and view alarms from an Alarm View Display and the Web Client Alarms application to alert on process variations. View an ad-hoc trend from an alarm notification.

Security Management

Review the Plant Applications Security Model. Learn to apply security in Plant Applications (Administrator security, Web Client security and user (Data Level) security). Examine Plant Applications Electronic Signatures.