GE
Intelligent Platforms

Part #: 44A728319-107

Production Management Fundamentals

Course Description

Proficy Plant Applications ***Production Management Fundamentals*** will teach you how to configure Plant Applications software for Product tracking, Product Genealogy and Schedule/Order Management. It provides entry-level access to Production Management capabilities and applications. This includes learning to configure the Plant Model for production tracking, performing Event Model design to identify and quantify materials to be created and tracked, as well as completing Genealogy Model design. Valuable hands-on lab exercises are provided to guide students through configuration by modeling a fictitious manufacturing process.

Who Should Attend?

The course is intended for those that are responsible for configuration and support of the software within their organization as well as Integrators responsible for the implementation of the Production Management Module.

Are There Any Prerequisites?

Participants should have a basic understanding of Microsoft SQL Server, Microsoft Internet Information Server (IIS) & Microsoft Excel. They should also have an understanding of basic manufacturing terminology and have attended the Plant Applications Fundamentals training class.

What Tasks Will Be Taught in This Class?

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

- Describe the functionalities found in the Plant Applications Production Management Module;
- Use the Plant Applications tools to model production tracking and product genealogy; and
- Understand how Input Models function (Note: the detailed scripting of generic model stored procedures is not covered in this fundamentals class); and
- Execute a Schedule while applying production counts to a Process Order on the Schedule.

Course Length

3 days

Suggested Class Size

8 students

Class Hours

8:00 am - 5:00 pm, daily

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Course Agenda (Schedule and content may vary)

Day 1

Morning

GE Proficy Plant Applications Overview

Review the basic features and design of Proficy Plant Applications and the Plant Applications Administrator.

Production Management Introduction

Introduce the Production Management Module and its importance for integration with other systems

Study the components of Production Management and Production Management terminology.

Plant Model Design

Configure the Plant Model for the purpose of Production Management. Identify how products are associated to the Plant Model for Product Tracking. Learn to use Product Change Event Detection Models.

Afternoon

Event Model Design

Configure placeholder Production Events to support Production Management and enable User Defined Events and variables to collect data in the context of a phase.

Study the role of Event Dimensions and create event dimension variables while Exploring Autolog Production Event and User Defined Event displays.

Day 2

Morning

Genealogy Model Design

Study the basic features of Plant Applications Genealogy and it components.

Raw Material Inputs and Input Models

Learn how to define Raw Material Inputs for process flow between Production Units.

Configure Movement and Genealogy Models to support

Afternoon

Material Balance Calculations

Study the role and configuration process for setting up material balance calculations to manage event dimensions in Plant Applications.

Using Genealogy related Applications

Build a Plant Applications Genealogy View and Autolog Genealogy application and explore there core functionalities.

Day 3

Morning

Product Flow Design

Learn how to model product flow by configuring Execution Paths and Flow Controls. Understand how to control the flow of a product in a multi-step process.

Build a Production Overview Display to show Execution Path details.

Afternoon

Plant Applications Schedule Execution

Study the anatomy of a Process Order and MES -ERP Integration.

Configure Production Alarming

Execute an Order item and perform order management execution tasks using the Schedule View Application.