



Course Description: Wonderware MES 4.0 – Operations

The Wonderware MES 4.0 - Operations course is a 3-day, instructor-led course designed to provide you with a fundamental understanding of the features and functionality of the Wonderware MES 4.0 - Operations software. The class provides lectures and hands-on labs designed to supply and reinforce the knowledge to use MES 4.0 to develop Manufacturing Execution System (MES) applications. This course addresses the configuration to implement tracking of production events, bill of materials and genealogy, specifications, and inventory management within the context of real time integration with the Wonderware System Platform.

OBJECTIVES

Upon completion of this course, you will be able to:

- Configure the Operations model in Wonderware MES 4.0
- Use the Operations Capability object to track production events
- Define a bill of materials (BOM) and track genealogy associated to the BOM
- Define and report by-products
- Define and use specifications
- Configure and track manual steps during production
- Create and assign custom MES attributes
- Manage inventory lots

AUDIENCE

Engineers, IT personnel, System Integrators, Consultants, and other individuals who need to use the Wonderware Intelligence software in their manufacturing processes

PREREQUISITES

The prerequisites for this course are:

- Knowledge of Application Server
- Knowledge of InTouch for System Platform, specifically the use and configuration of .NET Client Controls in ArchestrA Symbols
- Knowledge of how to execute ArchestrA Reports using Information Server
- Manufacturing industry experience

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www.wonderwarenorth.com

Owned and Operated by Q-mation, an Independent Wonderware software distribution partner.



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COURSE OUTLINE

Module 1 Introduction

- Section 1 - Course Introduction
- Section 2 - System Platform Overview
- Section 3 - Wonderware Operations Software Overview
- Section 4 - System Requirements, Licensing, and Support

Module 2 MES Client Overview

- Section 1 - MES Client
- Section 2 - Security
 - Lab 1 - Enabling Security

Module 3 Define the Basic Operations Model

- Section 1 - Modeling Overview
 - Lab 2 - Setting Up the Galaxy
- Section 2 - Entity Model
 - Lab 3 - Defining the MES Entity Model
- Section 3 - Entity Capabilities
- Section 4 - Product and Process Definition
 - Lab 4 - Defining Products and Processes
- Section 5 - Work Order Execution
 - Lab 5 - Tracking Work Order Execution

Module 4 More on the Operations Model

- Section 1 - Rejected Production
 - Lab 6 - Create a Bad Production Counter
- Section 2 - Storage Capability
 - Lab 7 - Tracking Storage Locations
- Section 3 - Bill of Materials
 - Lab 8 - Defining a Bill of Materials
 - Lab 9 - Tracking Genealogy
- Section 4 - Item Grades, States, and Reasons
 - Lab 10 - Defining Item Grades, States, and Reasons
- Section 5 - By-Products
 - Lab 11 - Tracking By-Products
- Section 6 - Schedule Jobs at a Parent Entity
 - Lab 12 - Scheduling Jobs at a Parent Entity
- Section 7 - Job Management
 - Lab 13 - Managing Jobs
- Section 8 - Job Creation

Module 5 Operator Visualization

- Section 1 - MES Operator Client
 - Lab 14 - Manually Tracking Work Orders
- Section 2 - MES .NET Controls
 - Lab 15 - Using Wonderware MES .NET Controls

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Module 6 Specifications, Steps, and MES Attributes

Section 1 - Operation Steps

Lab 16 - Tracking Operations Steps

Section 2 - Specifications

Lab 17 - Managing Specifications

Section 3 - MES Attributes

Lab 18 - Adding MES Attributes

Module 7 Inventory Management

Section 1 - Inventory

Lab 19 - Managing Inventory Lots

Lab 20 - Tracking Job Inventory Updates

Module 8 Application Maintenance

Section 1 - Rejected Message Viewer

Section 2 - Data Archival, Purge, and Restore

Section 3 - Database Maintenance

Section 4 - Middleware Maintenance

Lab 19 - Calendar