



COURSE DESCRIPTION

The MES Performance 2014 R2 course is a 3-day, instructor-led class designed to provide a working knowledge of the features and functionality of Wonderware MES 2014 R2/Performance. The course uses lectures and hands-on labs to provide the knowledge needed to use Wonderware MES/Performance. The class will demonstrate how to configure and deploy a data collection system to analyze and report equipment utilization, availability, quality, and performance using Application Server objects. Both the MES Client and Web Portal will be addressed.

OBJECTIVES

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

- Configure and license Middleware connections within a single node or between multiple nodes in a network
- Model plant equipment (entities) in the MES database
- Define entity utilization states and reason codes
- Enable capabilities in the Utilization Capability Object to track Performance Events in a production environment
- Use objects in a Galaxy to automatically track equipment utilization
- Manage work orders and jobs within MES
- Use the Wonderware MES Client and Performance Web Portal to define the information necessary to collect Overall Equipment Effectiveness (OEE) data
- Use MES/Performance as a central downtime information repository and reporting tool
- Retrieve and report downtime data and analyze OEE
- Use the MES Galaxy objects to report OEE
- Use MES .NET controls to access OEE data

AUDIENCE

- Application developers
- Engineers
- System Integrators

PREREQUISITES

- Manufacturing industry experience
- Working knowledge of System Platform is recommended

COURSE OUTLINE – MES PERFORMANCE 2014 R2

MODULE 1 – INTRODUCTION

- Section 1 – Course Introduction
- Section 2 – Wonderware MES /Performance Overview
- Section 3 – Wonderware MES /Performance Components
- Section 4 – System Requirements and Licensing

MODULE 2 – WONDERWARE MES CLIENT AND WEB PORTAL

- Section 1 – Wonderware MES Client and Web Portal
- Section 2 – Security

MODULE 3 – UTILIZATION AND ENTITIES

- Section 1 – Utilization Overview
- Section 2 – Entities Overview
- Section 3 – Utilization States and Reasons
- Section 4 – Performance Events

MODULE 4 – OEE AND LINES

- Section 1 – Line Introduction
- Section 2 – Shifts and Shift Schedules
- Section 3 – Items
- Section 4 – Single Entity Lines
- Section 5 – Work Orders

MODULE 5 – MULTI-ENTITY LINES

- Section 1 – Multi-Entity Lines
- Section 2 – Parallel Equipment

MODULE 6 – AUTOMATING PERFORMANCE

- Section 1 – Modeling Overview
- Section 2 – Utilization Capability Object Overview
- Section 3 – Entity Model Builder
- Section 4 – Operations Capability Object Overview
- Section 5 – MES Objects in Runtime

MODULE 7 – VISUALIZATION

- Section 1 – Visualization Overview

MES PERFORMANCE 2014 R2



MODULE 8 - REPORTS

- Section 1 – ArchestrA Reports

MODULE 9 - APPLICATION MAINTENANCE

- Section 1 – Middleware Maintenance
- Section 2 – Database Maintenance
- Section 3 – Data Backup