

COURSE DESCRIPTION

The MES Operations course is a 3-day, instructor-led class designed to provide a fundamental understanding of the features and functionality of AVEVA™ MES Software/Operations. This course provides lectures and hands-on labs designed to supply and reinforce the knowledge necessary to use MES Operations to configure and define an operations model, products, and production capabilities. The class will demonstrate parameter download/upload and data collection, as well as how to report traceability and genealogy information. The course will also cover integration between MES Operations and System Platform.

OBJECTIVES

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

- Define a production and execution model, which addresses the bill of materials, operations, and inventory
- Create and execute work orders that enforce production rules
- Implement production capabilities, such as data collection, traceability, genealogy, and material substitution
- View and analyze production reports
- Integrate MES Software/Operations with AVEVA™ System Platform
- Create windows using MES .NET Controls

AUDIENCE

- Application developers
- Engineers
- System Integrators

PREREQUISITES

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

COURSE OUTLINE - MES OPERATIONS

MODULE 1 - INTRODUCTION

- Section 1 – Course Introduction
- Section 2 – System Platform Overview
- Section 3 – MES Software/Operations Overview
- Section 4 – System Requirements and Licensing

MODULE 2 – MES CLIENT OVERVIEW

- Section 1 – MES Client
- Section 2 – Security

MODULE 3 – DEFINE THE BASIC OPERATIONS MODEL

- Section 1 – Modeling Overview
- Section 2 – Entity Model
- Section 3 – Entity Capabilities
- Section 4 – Product and Process Definition
- Section 5 – Work Order Execution

MODULE 4 – MORE ON THE OPERATIONS MODEL

- Section 1 – Rejected Production
- Section 2 – Storage Capability
- Section 3 – Bill of Materials
- Section 4 – Item Grades, States, and Reasons
- Section 5 – By Products
- Section 6 – Schedule Jobs at a Parent Entity
- Section 7 – Job Management
- Section 8 – Job Creation

MODULE 5 – OPERATOR VISUALIZATION

- Section 1 – MES Operator Client
- Section 2 – MES .NET Controls

MODULE 6 – STEPS, SPECIFICATIONS, SPARES, AND MES ATTRIBUTES

- Section 1 – Operations Steps
- Section 2 – Specifications
- Section 3 – Spares and MES Attributes

MODULE 7 – INVENTORY MANAGEMENT

- Section 1 – Inventory