

COURSE DESCRIPTION

The Model-Driven MES with AVEVA™ MES course is a 3-day, introductory instructor-led class designed to provide an overview of the model-driven MES (Manufacturing Execution System) framework. The course will provide a comprehensive overview of using AVEVA Work Tasks to build MES solutions, including best practices and recommendations. Topics will be presented in lecture format and reinforced through hands-on exercises.

OBJECTIVES

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

- Understand the fundamental principles of the model-driven MES approach when compared to the traditional MES approach
- Understand the value of the traditional and model-driven MES approaches
- Recognize the key components of the model-driven MES approach
- Understand AVEVA Work Tasks fundamentals and their use
- Build your own MES solution using the model-driven MES approach
- Distribute and localize your MES solution
- Understand the architecture, design guidelines, and fundamental model-driven MES best practices

AUDIENCE

Individuals who support and deliver MES projects

PREREQUISITES

Knowledge of the following tools, features, and technologies is required:

- The deployment of AVEVA MES solutions
- At least one of the following AVEVA MES modules: Operations, Performance, or Quality
- AVEVA System Platform concepts

COURSE OUTLINE - MODEL-DRIVEN MES

MODULE 1 - INTRODUCTION

- Section 1 – Course Introduction
- Section 2 – Model-Driven MES Overview
- Section 3 – Transition of Traditional MES to Model-Driven MES
- Section 4 – Key Elements of a Model-Driven MES Framework

MODULE 2 – AVEVA WORK TASKS FUNDAMENTALS

- Section 1 – Introduction to AVEVA Work Tasks
- Section 2 – AVEVA Work Tasks Repository and Security
- Section 3 – Workflows
- Section 4 – Forms
- Section 5 – Associate a Form with a Workflow
- Section 6 – External Data Connections

MODULE 3 – MODEL-DRIVEN MES CONCEPTS

- Section 1 – Introduction to an Existing MES Model
- Section 2 – Model-Driven MES Project Setup
- Section 3 – Work with MES Web API in Work Tasks
- Section 4 – Work with MES Activities in a Workflow
- Section 5 – Manage a Repository Navigation List
- Section 6 – Add Inventory Functionality
- Section 7 – Troubleshooting Tools

MODULE 4 – MODEL-DRIVEN MES APPLICATION CONTENT

- Section 1 – Introduction

MODULE 5 – CUSTOMIZATIONS AND MAINTENANCE

- Section 1 – Packages
- Section 2 – Localization
- Section 3 – Customizations

APPENDIX A – BEST PRACTICES IN MODEL-DRIVEN DEVELOPMENT

- Section 1 – Overview of Best Practices

APPENDIX B – TRADITIONAL MES MODEL REFERENCE

- Section 1 – MES Model