AVEVA BATCH MANAGEMENT

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COURSE DESCRIPTION

The AVEVA™ Batch Management course is a 5-day, instructor-led class designed to provide a fundamental understanding of the features and functionality of the Batch Management software. The course provides lectures and hands-on labs to supply and reinforce the knowledge necessary to apply AVEVA Batch Management to a batch processing application. This includes creating the plant model, creating recipes, and simulating their execution.

OBJECTIVES

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

- Define and configure a process model
- Create recipes and simulate their execution against a process model
- Schedule and run batches
- Configure Batch Management security
- Using System Platform to connect Batch Management to field I/O
- Use Batch Management graphics to build user interfaces to InTouch

AUDIENCE

- Application developers
- Engineers
- System integrators
- Other individuals who work with batching systems in their manufacturing processes

PREREQUISITES

- Manufacturing industry experience
- Basic knowledge of batch systems
- Experience using Microsoft Windows
- Basic knowledge of Application Server and InTouch for System Platform
- Basic knowledge of InTouch

COURSE OUTLINE – AVEVA BATCH MANAGEMENT

MODULE 1 – INTRODUCTION

- Section 1 – Course Introduction
- Section 2 – Batch Management Overview
- Section 3 – Installation, Components & System Requirements

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MODULE 2 – THE ENVIRONMENT DISPLAY
- Section 1 – Environment Manager Overview and Operation

MODULE 3 – PROCESS MODELING
- Section 1 – Process Modeling
- Section 2 – Process Model Editor
- Section 3 – Equipment Status
- Section 4 – Classes
- Section 5 – Phases
- Section 6 – Enumeration
- Section 7 – Units of Measure
- Section 8 – Tags and Parameters for Phases
- Section 9 – Interlock and Control Buttons
- Section 10 – Model Validation and Database Synchronization

MODULE 4 – TRAINS
- Section 1 – Use and Definition of Trains

MODULE 5 – MATERIALS
- Section 1 – Materials and Characteristics
- Section 2 – Assigning Materials and Receiving Materials

MODULE 6 – RECIPES
- Section 1 – Recipes and the Recipe Editor
- Section 2 – Recipe Validation and Approval

MODULE 7 – BATCH MANAGEMENT
- Section 1 – Batch Scheduling
- Section 2 – Batch Display Operation

MODULE 8 – ADVANCED TOPICS, RECIPES, AND BATCHES
- Section 1 – Formula Management
- Section 2 – Reusing a Recipe
- Section 3 – Equipment Availability and Allocations
- Section 4 – Equipment Instances in Recipes
- Section 5 – Recipe Transitions and Loopbacks
- Section 6 – Batch Synchronization at Restart

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MODULE 9 – HISTORY AND REPORTING
- Section 1 – History
- Section 2 – Process Logger System
- Section 3 – Reporting System

MODULE 10 – INBATCH CONNECTIONS
- Section 1 – Overview
- Section 2 – Batch Management Connection to Control Systems

MODULE 11 – SECURITY SYSTEM
- Section 1 – Batch Management Security System Overview
- Section 2 – Batch Management Standard Security
- Section 3 – Batch Management Security Using Operating System

MODULE 12 – BATCH MANAGEMENT INTEGRATION WITH INTOUCH
- Section 1 – Batch Management Data in InTouch

MODULE 13 – BATCH MANAGEMENT INTEGRATION WITH SYSTEM PLATFORM
- Section 1 – Connecting Batch Management to a Galaxy
- Section 2 – ArchestrA Security with Batch Management

MODULE 14 – BATCH MANAGEMENT GUI CONTROLS
- Section 1 – Introduction
- Section 2 – Batch Management .NET GUI Controls