



## Course Description: Manufacturing Execution Module Foundation and Modeling

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*Manufacturing Execution Module Foundation and Modeling* course is a 3-day, instructor-led class that provides you with a fundamental understanding of how Manufacturing Execution Module Foundation and Modeling software is utilized as a plant-wide tracking and modeling application. This is accomplished through the construction and fine-tuning of an operations/production model based on a business case. The model includes materials tracking, materials consumption, and production process evaluation. Design concepts to build a Manufacturing Execution Module Foundation and Modeling Software model are provided.

### OBJECTIVES

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

- Create a manufacturing model using InTrack™ Software
- Alter the model using InTrack™ Software components to create customer specifications, overrides, UDAs, UDTs, etc.
- Enhance the model by creating Alternative Route Paths, additions to BOMs
- Create InTrack™ Software reports using Crystal Reports
- Use the InTrack™ Analysis Client for SuiteVoyager™ Software to view and analyze InTrack™ data

### AUDIENCE

System integrators, plant floor operators and managers, system administrators, and other individuals who use InTrack™ Software as their Production Model and WIP tracking tool.

### PREREQUISITES

The prerequisites for this course are:

- InTouch® Comprehensive course
- IndustrialSQL Server™ Historian course
- Oracle products

## COURSE OUTLINE

### Module 1 - Introduction

- Section 1 - Course Introduction
- Section 2 - Manufacturing Model and InTrack
- Section 3 - Application Cases

### Module 2 - The InTrack 7.1 Product

- Section 1 - InTrack Architecture
- Section 2 - Installing InTrack

### Module 3 - SRS Business Case

### Module 4 - Building the Model

- Section 1 - Runtime Accessing
  - Lab 1 - Runtime
- Section 2 - Routes and Operations
  - Lab 2 - Assembly Route
- Section 3 - Materials and Locations
  - Lab 3 - Materials and Locations
- Section 4 - Defining the Bill of Materials (BOM)
  - Lab 4 - Bill of Materials (BOM)
- Section 5 - Spreading BOMs to Operations and Consumption
  - Lab 5 - Assembly Route, BOMs and Consumption
  - Lab 6 - Kit Route and BOMs
  - Lab 7 - Kit Route and Consumption
- Section 6 - Data Collection and Data Set Templates
  - Lab 8 - Data Collection and Data Set Templates

### Module 5 - Enhancing the Model

- Section 1 - Material Substitution and Versioning
  - Lab 9 - Material Substitution
  - Lab 10 - Material Versioning
- Section 2 - Machine Types and Machines
  - Lab 11 - Machine Types and Machines
- Section 3 - Work Instructions
  - Lab 12 - Work Instructions
- Section 4 - Setpoint Templates
  - Lab 13 - Setpoint Templates
- Section 5 - User Certification and Security
  - Lab 14 - User Certification and Security
- Section 6 - Product and Customer Specification Overrides
  - Lab 15 - Product Level Overrides
  - Lab 16 - Customer Specification Overrides
- Section 7 - UDAs and UDTs
  - Lab 17 - UDAs
  - Lab 18 - UDTs
- Section 8 - Calendar
  - Lab 19 - Calendar



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**Module 6 - Tuning the Model**

Section 1 - Disposition Codes

Section 2 - Alternative Route Paths and Scrap Destination

Lab 20 - Alternative Route Paths - 1

Lab 21 - Alternative Route Paths - 2

Section 3 - Material Output

Lab 22 - Material Output as By-Product

Lab 23 - Material Output as Co-Product

Section 4 - Reporting

Lab 24 - Reporting with Crystal Reports

Section 5 - Reporting with InTrack Analysis Client