

R12.2.9 Oracle Manufacturing Functional Foundation

Oracle E-Business Suite

DURATION

4 Days

MODULES

12 Lectures

COURSE CODE

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Course Overview

Information System Professionals benefits from the functional coverage of the technical material given in application technical reference manuals. The instructor demonstrates and describes a manufacturing function such as entering a bill of material (Oracle Engineering functionality) and follows it up by a detailed discussion of an entity relationship diagram depicting the database table relationships involved in bills of material entry. The students then demonstrate their understanding by executing a SQL script to locate a particular bill of material, answer specific questions related to the database tables, with regard to that bill of material entry. The manufacturing applications that are covered in the modules include: Oracle Inventory, Oracle Bills of Material and Engineering, Oracle Cost Management, Oracle Order Management, Oracle Work in Process, Oracle Advanced Supply Chain Planning, Oracle Quality, and Oracle Purchasing. 50 entity relationship diagrams are presented and discussed.

What You Will Learn

Overview

- Course Objectives
- Agenda
- Application Basics: Tools and Security
- Application Basics
- Quiz
- Entity Relationship Diagrams
- Open Interfaces
- Agenda
- Manufacturing Functional Foundation Applications
- Quiz
- Inventory Overview
- Bills of Material / Engineering Overview
- Cost Management Overview
- Quality Overview
- Work in Process Overview
- Quiz

- Order Management Overview
- Quiz
- Advanced Supply Chain Planning
- Purchasing Overview
- Summary

Applications Basics

- Objectives
- Agenda
- Basic Applications Tools
- Agenda
- Applications Security
- Flexibility and Scalability
- Agenda
- Concurrent Processing
- Quiz
- Agenda
- Flexfields
- Agenda
- Workflow
- Workflow-Driven Business Processes
- Business Process - Based Integration
- Quiz
- Summary

ERDs and Applications Technology

- Objectives
- Agenda
- Entity Relationship Diagrams (ERDs)
- Entity
- Entities and Instances
- Quiz
- Attributes
- Relationships
- Agenda
- Concurrent Requests: Terms and Definitions
- Terms and Definitions
- View Requests
- Agenda
- Folders
- Folders: Direct Manipulation Techniques
- Agenda
- Attachments
- The Attachments Icon
- Adding a New Attachment

- Agenda
- Navigator: Region Tabs
- Placing Documents on the Navigator
- Agenda
- Flexfields
- Basic Flexfield Components
- Descriptive Flexfields
- Summary

Open Interfaces and APIs

- Objectives
- Open Interface Overview
- Quiz
- Interface Options
- Advantages of Open Interfaces
- Quiz
- Interface Table Diagram
- Open Interface Processing
- API Diagram
- Quiz
- Summary

Oracle Inventory

- Objectives
- Agenda
- Inventory Features
- Inventory Organizations
- Inventory Organization Structure
- Inventory Capabilities: Shared Entities
- Inventory Capabilities: Functions
- Inventory Items
- Quiz
- Item Attributes
- Item Attribute Groups
- Control Levels
- Item Status and Status Attributes
- Life Cycle of a Part
- Item Control
- Receipt to Issue Life Cycle
- Receiving Inventory
- Transferring Inventory
- Issuing Inventory
- Quiz
- Transaction Flows
- Inventory Transactions

- On-hand Quantity
- Reservations
- Availability
- Inventory Forecasting
- Inventory Planning and Replenishment
- Quiz
- Inventory Control and Accuracy: ABC Analysis
- Inventory Control and Accuracy: Cycle Counting
- Inventory Control and Accuracy: Physical Inventory
- Inventory Process
- Agenda
- Defining Organizations
- Organizations
- Defining Organizations
- Defining Subinventories and Locators
- Quiz
- Subinventories and Locators
- Defining Items
- Item Master
- Defining Item Controls
- Item Controls
- Defining Item Status Codes
- Item Status
- Defining Item Categories Sets and Category Codes
- Item Categories
- Defining Item Catalog Groups
- Item Catalogs
- Defining an ABC Analysis
- ABC Analysis
- Defining Physical Inventory
- Physical Inventory
- Defining a Cycle Count
- Cycle Count
- Quiz
- Defining Item Reservations
- Demand and Reservation Information
- Oracle Inventory Transaction Flow
- Agenda
- Inventory Open Interfaces
- Inventory Application Program Interfaces
- Summary

Oracle Bills of Material and Engineering

- Objectives
- Agenda

- Bills of Material Overview
- Bill of Material Types
- Quiz
- Phantoms
- Primary and Alternate Bills of Material
- Item and Routing Revisions
- Bill of Material Tasks
- Routings
- Operations
- Departments
- Resources
- Primary and Alternate Routings
- Quiz
- Agenda
- Defining a Bill of Material
- Bill of Material Structures
- Bill of Material Resources and Departments
- Defining a Routing
- Bill of Material Routings
- Agenda
- Engineering Overview
- Engineering Prototypes
- Quiz
- Product Lifecycle
- Transferring or Copying Engineering Items, Bills, and Routings
- Engineering Change Orders
- Quiz
- ECO Approvals
- Agenda
- Defining an ECO
- Engineering Change Control
- Agenda
- Bills of Material Open Interfaces and Application Program Interfaces
- Engineering Open Interfaces and Application Program Interfaces
- Summary

Oracle Cost Management

- Objectives
- Agenda
- Oracle Cost Management Overview
- Cost Structure: Organizations
- Cost Structure: Cost Elements
- Cost Structure: Activities
- Quiz
- Cost Rollup and Updates

- Quiz
- Costing Methods
- Standard Costing
- Average Costing
- FIFO/LIFO Costing
- Periodic Costing
- Revenue and COGs Matching Costing
- Project Manufacturing Costing
- Quiz
- Subledger Accounting
- Quiz
- Agenda
- Defining Item Costs
- Standard Cost Type
- Average, FIFO, LIFO Cost Types
- Resource and Overhead Costs
- Agenda
- Cost Management Open Interfaces and Application Program Interfaces
- Summary

Oracle Quality

- Objectives
- Agenda
- Overview of Oracle Quality
- Quiz
- Collection Elements
- Quiz
- Specifications
- Actions
- Quiz
- Collection Plans
- Quiz
- Data Collection Options
- Quality Data Collection Transactions
- Query, Report, and Export Data
- Track and Monitor Quality Results
- Quality Process Flow Diagram
- Agenda
- Collection Plan Window
- Solution Templates
- Quiz
- Collection Plan
- Enter Quality Results Window
- Collection Results
- Agenda

- Quality Open interfaces
- Quality Specification APIs
- Quality Collection Plan APIs
- Quiz
- Summary

Oracle Work in Process

- Objectives
- Agenda
- Work in Process Overview
- Discrete Manufacturing
- Non-Standard Discrete Jobs
- Quiz
- Material Control
- Outside Processing
- Scheduling
- Job and Resource Workbench
- Quiz
- Shop Floor Control
- Quiz
- Resource Management
- Agenda
- Work in Process Transactions
- Discrete Jobs Window
- Discrete Jobs
- Repetitive Schedules
- Material Transactions Window
- Material Transactions
- Move Transactions Window
- Move Transactions
- Resource Transaction Window
- Resource Transactions
- Completion Transactions Window
- Quiz
- Completion Transactions
- Work Order-less Completions Window
- Agenda
- Work in Process Open Interfaces and Application Program Interfaces
- Summary

Oracle Order Management

- Objectives
- Agenda
- Order to Cash Lifecycle
- Quiz

- Order Entry
- Managing Orders
- Quiz
- Basic Pricing
- Pricing Process
- Sales Order Scheduling
- Order Management Integration
- Oracle Order Management Suite
- Shipping Execution Overview
- Quiz
- Configurator Overview
- Advanced Pricing Overview
- Quiz
- Release Management Overview
- Agenda
- Sales Order Window
- Order Management Summary
- Agenda
- Import Orders Concurrent Program
- Order Import Process
- Order Management Interfaces
- Process Order API
- Summary

Advanced Supply Chain Planning

- Objectives
- Demand and Supply
- Demand and Supply: Independent and Dependent Demand
- Demand and Supply
- Demand and Supply: Forecasting
- Demand and Supply: Master Scheduling
- Supply Chain Planning
- Collections
- Collections: Collections Process
- Collections: Data Collection
- Collections: Scheduling and Frequency
- Collections: Methods
- Collections: Parameters
- Collections: Planning Data Pull parameters
- Collections: Planning ODS Load parameters
- Collections: Workbench
- ASCP Planning: Plan Type and Planning Method Attribute
- ASCP Planning: Plan Type Classes
- ASCP Planning: Unconstrained
- ASCP Planning: Optimized

- ASCP Planning: Plan Decisions
- ASCP Planning: Load using an MDS
- ASCP Planning: Load directly into ASCP
- ASCP Planning: Planner Workbench
- ASCP Planning: Planners Workbench Activities
- ASCP Planning: Indented Supply Chain
- ASCP Planning: Planning Strategies
- ASCP Planning: Multiple Organization Planning
- ASCP Planning: Holistic Plans
- ASCP Planning: Subset Planning Scenarios
- ASCP Planning: Pitfalls of Subset Planning
- ASCP Planning: Existing Plans as Demand Schedules
- ASCP Planning: Existing Plans as Supply Schedules
- Table and Entity Relationships
- Forecast: Sets Window
- Forecast: Tables
- MDS to ASCP Flow
- Forecast to ASCP Flow
- Purchasing to ASCP Flow
- Sales Orders to ASCP Flow
- Work in Process to ASCP Flow: eBus Side
- Work in Process to ASCP Flow: Value Chain Planning Side
- ASCP Plans
- ASCP: Plans
- ASCP: Sourcing Tables
- ASCP: Sourcing
- ASCP Pegging
- ASCP: Pegging
- Advanced Supply Chain Planning Interfaces
- Summary

Oracle Purchasing

- Objectives
- Agenda
- Overview of the Purchasing Process
- Purchase Requisitions
- Where Purchase Requisitions Fit
- Quiz
- Information Flow for Purchase Requisitions
- Purchasing Documents
- Quiz
- Where Purchase Orders Come From
- Information Flow for Purchase Orders
- Purchase Order Process
- Quiz
- Purchase Order Communication

- Receiving in Oracle Purchasing
- Receiving Process
- Quiz
- Standard Purchasing Integration
- Agenda
- Suppliers Window
- Suppliers
- Requisitions Window
- Requisitions
- Purchase Orders Window
- Procurement Suite
- Purchasing Documents
- Receiving Transactions
- Receiving
- Buyer's Work Center
- Agenda
- Purchasing Open Interfaces
- Receiving Open Interfaces
- Purchasing APIs
- Summary