PLM114

Basic Data for Manufacturing and Product Management

COURSE OUTLINE

Course Version: 15
Course Duration: 5 Day(s)
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Typographic Conventions

American English is the standard used in this handbook. The following typographic conventions are also used.

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TARGET AUDIENCE
This course is intended for the following audiences:

- Application Consultant
- Business Analyst
- Business Process Owner/Team Lead/Power User
- Data Consultant/Manager
- Program/Project Manager
- User
Lesson 1: Accessing and Creating Types of Data

Lesson Objectives
After completing this lesson, you will be able to:

• Navigate to configuration data
• Access master data
• Create transactional data

Lesson 2: Using Organizational Elements and Master Data in Production

Lesson Objectives
After completing this lesson, you will be able to:

• Describe the relationship between organizational elements and production master data
• Explain how master data objects are used in production planning
Lesson 1: Creating a Plant in SAP ERP

Lesson Objectives
After completing this lesson, you will be able to:

• Create a plant in SAP ERP

Lesson 2: Creating a Storage Location in SAP ERP

Lesson Objectives
After completing this lesson, you will be able to:

• Create a storage location

Lesson 3: Creating MRP Areas

Lesson Objectives
After completing this lesson, you will be able to:

• Create MRP areas in SAP ERP
Lesson 1: Describing the Structure of the Material Master Record

Lesson Objectives
After completing this lesson, you will be able to:

- Describe the layout of the material master record

Lesson 2: Maintaining Prerequisites for Creating Material Master Records

Lesson Objectives
After completing this lesson, you will be able to:

- Maintain prerequisites for creating material masters

Lesson 3: Creating a Material Master Record

Lesson Objectives
After completing this lesson, you will be able to:

- Create a material master record using different methods

Lesson 4: Classifying Material Master Records

Lesson Objectives
After completing this lesson, you will be able to:

- Classify material master records using classification

Lesson 5: Managing the Material Master Record

Lesson Objectives
After completing this lesson, you will be able to:

- Manage material master records
Lesson 1: Describing the Structure of a BOM
Lesson Objectives
After completing this lesson, you will be able to:

• Describe the structure of a bill of material

Lesson 2: Managing the Validity of BOMs
Lesson Objectives
After completing this lesson, you will be able to:

• Manage the validity of BOMs

Lesson 3: Managing BOMs
Lesson Objectives
After completing this lesson, you will be able to:

• Create and change bills of material

Lesson 4: Changing BOMs with Engineering Change Management (ECM)
Lesson Objectives
After completing this lesson, you will be able to:

• Change BOMs using ECM

Lesson 5: Analyzing BOMs
Lesson Objectives
After completing this lesson, you will be able to:

• Analyze multilevel bills of material

Lesson 6: Configuring BOMs
Lesson Objectives
After completing this lesson, you will be able to:

- Configure bills of material
Lesson 1: Explaining the Structure of Master Data

Lesson Objectives
After completing this lesson, you will be able to:

- Describe the structure of master data used to model manufacturing.

Lesson 2: Creating Work Centers

Lesson Objectives
After completing this lesson, you will be able to:

- Create work centers.

Lesson 3: Creating Capacities in a Work Center

Lesson Objectives
After completing this lesson, you will be able to:

- Create capacities in the work center.

Lesson 4: Integrating Costing with a Work Center

Lesson Objectives
After completing this lesson, you will be able to:

- Integrate costing in the work center.
Lesson 1: Explaining the Structure of a Task List

Lesson Objectives
After completing this lesson, you will be able to:

• Describe the structure of the task list

Lesson 2: Creating Material Assignments and Component Allocations

Lesson Objectives
After completing this lesson, you will be able to:

• Create material assignments and component allocations

Lesson 3: Creating Suboperations and User-Defined Fields

Lesson Objectives
After completing this lesson, you will be able to:

• Create suboperations and user-defined fields

Lesson 4: Analyzing and Changing Task Lists

Lesson Objectives
After completing this lesson, you will be able to:

• Analyze and change task lists
UNIT 7
Advanced Bill of Material Functions

Lesson 1: Creating Co-Products and By-Products
Lesson Objectives
After completing this lesson, you will be able to:
- Create co-products and by-products

Lesson 2: Describing Phantom Assemblies
Lesson Objectives
After completing this lesson, you will be able to:
- Describe phantom assemblies

Lesson 3: Creating Alternative Components
Lesson Objectives
After completing this lesson, you will be able to:
- Create alternative components

Lesson 4: Creating Multiple BOMs
Lesson Objectives
After completing this lesson, you will be able to:
- Create multiple bills of materials (BOMs)

Lesson 5: Creating Variant BOMs
Lesson Objectives
After completing this lesson, you will be able to:
- Create variant BOMs

Lesson 6: Making Mass Change with the Product Structure Browser
Lesson Objectives
After completing this lesson, you will be able to:

- Use the mass change function and the product structure browser
UNIT 8

Advanced Routing Functions

Lesson 1: Modeling Complex and Flexible Manufacturing
Lesson Objectives
After completing this lesson, you will be able to:

- Create alternative and parallel sequences

Lesson 2: Modeling Alternative Manufacturing Processes
Lesson Objectives
After completing this lesson, you will be able to:

- Create alternative routings and production versions

Lesson 3: Creating Reference Operation Sets
Lesson Objectives
After completing this lesson, you will be able to:

- Create reference operation sets

Lesson 4: Applying Lead-Time Scheduling to Update a Material Master Record
Lesson Objectives
After completing this lesson, you will be able to:

- Use lead-time scheduling to update the material master

Lesson 5: Scheduling Time Elements and Reduction in the Routing
Lesson Objectives
After completing this lesson, you will be able to:

- Schedule time elements and reduction in the routing

Lesson 6: Creating Trigger Points
Lesson Objectives
After completing this lesson, you will be able to:

• Create trigger points

Lesson 7: Allowing for Scrap in the Routing
Lesson Objectives
After completing this lesson, you will be able to:

• Use scrap in the routing

Lesson 8: Creating Production Resources and Tools
Lesson Objectives
After completing this lesson, you will be able to:

• Create production resources and tools
Lesson 1: Describing the Structure of the Engineering Workbench

Lesson Objectives
After completing this lesson, you will be able to:

• Describe the structure of the engineering workbench

Lesson 2: Setting the Work Area, Selection Criteria, and Effectivity Window

Lesson Objectives
After completing this lesson, you will be able to:

• Set the work area, selection criteria, and effectivity window

Lesson 3: Navigating in the Engineering Workbench (EWB)

Lesson Objectives
After completing this lesson, you will be able to:

• Navigate in the engineering workbench

Lesson 4: Creating Engineering Workbench Work Areas

Lesson Objectives
After completing this lesson, you will be able to:

• Create engineering workbench work areas

Lesson 5: Explaining the PLM Web User Interface (Product Lifecycle Management Web User Interface)

Lesson Objectives
After completing this lesson, you will be able to:

• Use the PLM Web User Interface

Lesson 6: Explaining Status and Action Management (SAM)
Lesson Objectives
After completing this lesson, you will be able to:
• Use status and action management

Lesson 7: Synchronizing BOMs Using Guided Structure Synchronization

Lesson Objectives
After completing this lesson, you will be able to:
• Use Guided Structure Synchronization

Lesson 8: Tracking Changes in BOMs Using Redlining

Lesson Objectives
After completing this lesson, you will be able to:
• Use BOM redlining to track changes