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.

This information is displayed in the instructor's presentation	
Demonstration	
Procedure	
Warning or Caution	
Hint	
Related or Additional Information	
Facilitated Discussion	
User interface control	*Example text*
Window title	*Example text*

Contents

Course Overview

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

UNIT 1 Master Data for Production

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

UNIT 2 Organizational Data in Supply Chain Management

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

UNIT 3 Material Masters

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

UNIT 4 Bills of Material (BOMs)

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

UNIT 5 Modeling the Manufacturing Process

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

UNIT 6 Task Lists

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

UNIT 9 Alternative User Interfaces

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