



SYLLABUS

PP PRODUCTION PLANNING

Production Planning and Control



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PP - Production Planning and Control

General Objective:

At the end of the course, the participant **will know and manage** the processes of the **SAP PP module (Manufacturing Processes)** that will allow you to develop as a SAP PP consultant and consolidate your professional development, based on practical learning with the dynamics of the course.

Addressed to:

Systems Architect, Project Manager, Production Testers , Training Director, Application Consultant, Development Consultant, Support Consultant, Industry/Business Analyst Consultant, Super Users, Key Users, Advanced Users, Business Process Architect, Business Process Owner/Team Leader, Help Desk/Support, CoEs , Industry Specialists, Solutions Architect and Instructors.

SAP S/4HANA

Duration: 6 Sessions

Total 30hrs

Thematic Content

Demand Management and Material Requirements

Unit 1: Overview of Supply Chain Planning

- Supply chain planning at a glance
- Exploring SAP Fiori and the System Landscape

Unit 2: Master Data

- Review of general master data in manufacturing
- Master data review for internal production

Unit 3: Demand Planning

- Understanding the principles and tools for demand planning.

Unit 4: Demand Management

- Description of the basic concepts of demand management
- Exploring production against stock
- Exploring on-demand production

Unit 5: MRP Material Requirements Planning

- Understanding the basics of MRP
- Introducing MRP Live
- Exploring production planning and detailed scheduling

Unit 6: Overview of Production Execution

- Outline types of production

Unit 7: Production with Production Orders

- Production Order Scanning: Features and Execution

PP - Production Planning and Control

Thematic Content

Unit 8: Production with Process Orders

- Exploring Process Orders: Characteristics and Execution

Unit 9: Production with repetitive manufacturing

- Exploring repetitive manufacturing: characteristics and
- Execution

Unit 10: Staging materials with Kanban

- Exploring Kanban: Features and Execution

SAP ERP Planning/Manufacturing I - Academy - Part 1/2

Unit 1: Master Data for Production

- Lesson: Accessing and Creating Data Types
- Lesson: Using Organizational Elements and Master Data in Production

Unit 2: Organizational Data in Supply Chain Management

- Lesson: Creating a Plant in SAP ERP
- Lesson: Creating a Storage Location in SAP ERP
- Lesson: Creating MRP Areas

Unit 3: Master Materials

- Lesson: Describing the Structure of the Material Master Record
- Lesson: Maintaining Prerequisites for Creating a Materials Master Records
- Lesson: Creating a Material Master Record
- Lesson: Classification of Material Master Records
- Lesson: Managing the Material Master Record

Unit 4: Bill of Materials (BOM)

- Lesson: Describing the structure of a BOM
- Lesson: Managing BOM Validity
- BOM
- Lesson: Changing BOMs with Engineering Change Management (ECM)
- Lesson: Analyzing BOMs
- Lesson: Configuring BOMs

Unit 5: Manufacturing Process Modeling

- Lesson: Explaining the Master Data Structure
- Lesson: Creating Work Centers
- Lesson: Building Capacity in a Workplace
- Lesson: Cost Integration with a Work Center

Unit 6: To-do Lists

- Lesson: Explaining the Structure of a To-Do List
- Lesson: Creating Material Assignments and Component Assignments
- Lesson: Creating Suboperations and User-Defined Fields
- Lesson: Analyzing and Changing Task Lists

PP - Production Planning and Control

Thematic Content

Unit 7: Advanced Invoicing of Material Functions

- Lesson: Creating Co-Products and By -Products
- Lesson: Describing Ghost Assemblies
- Lesson: Creating Alternative Components
- Lesson: Creating Multiple BOMs
- Lesson: Creating Variant BOMs
- Lesson: Making a Mass Change with the Product Structure Navigator

Unit 8: Advanced Routing Functions

- Lesson: Modeling Complex and Flexible Manufacturing
- Lesson: Modeling Alternative Manufacturing Processes
- Lesson: Creating Reference Operation Sets
- Lesson: Applying Lead Time Scheduling to Update a Material Master Record
- Lesson: Time Element Scheduling and Reduction in Routing
- Lesson: Creating Trigger Points
- Lesson: Allowing Junk in Routing
- Lesson: Creating Resources and Production Tools

SAP ERP Planning/Manufacturing I - Academy - Part 2/2

Unit 1: Overview of Production Planning in SAP ERP

- Lesson: Outlining the Supply Chain Planning Process
- Lesson: Outlining the Basic Production Planning Process

Unit 2: Demand Management

- Lesson: Delineating Demand Management
- Make - to -Stock Production Planning Without Consumption Logic
- Make - to -Stock Production Planning with Consumption Logic
- Make-to-Order Production Planning Without Consumption Logic
- Make-to-Order Production Planning with Consumption Logic
- Lesson: Using Assembly Processing in Make-to-Order Production Order
- Lesson: Implementing Improvements in Demand Management
- Lesson: Analyzing Availability Checks

Unit 3: Execution of Material Requirements Planning

- Lesson: Outline of Material Requirements Planning
- Lesson: Setting Up MRP Prerequisites
- Lesson: Running the MRP Run
- Lesson: Configuring MRP Run
- Lesson: MRP Planning Interactively
- Lesson: Application of Reaffirmation Mechanisms

PP - Production Planning and Control

Thematic Content

Unit 4: Technical Requirements Planning Processes

- Lesson: Calculating Net Requirements
- Lesson: Applying Buffers in Net Requirements Calculation
- Lesson: Calculating Batch Sizes
- Lesson: Selecting Procurement Types
- Lesson: Basic Date Scheduling Setup
- Lesson: Setting Up Delivery Time Scheduling
- Lesson: BOM Selection and Routing

Unit 5: Processing and Evaluating MRP Results

- Lesson: Comparing an MRP List and an Action/Requirements List
- Lesson: Applying the Planning Table
- Lesson: Identifying Exception Messages
- Lesson: Application of Additional Assessment Aids

Unit 6: Additional MRP Processes

- Lesson: Master Production Scheduling (MPS) Application
- Lesson: Establishing Long-Term Planning
- Lesson: Executing Long-Term Planning
- Lesson: Analyzing Multi-Site Planning
- Lesson: Configuring MRP Areas
- Lesson: Applying MRP Areas

Includes advice on taking the Global Certification Exam as a PP Consultant with SAP.