



Sydney Institute of ERP

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SAP SCM: Planning and Manufacturing

Goals

- Apply and communicate master data in the area of planning and manufacturing
- Apply and describe applications for production planning
- Utilize and describe basic functions for managing production orders (PP-SFC), repetitive manufacturing (PP-REM), process orders (PP-PI) and KANBAN (PP-KAN) as further options in production management
- Create, maintain, and use material masters, Bills of Material (BOMs), Standard Routings (task lists) and Work Centers.
- Participants will be tasked with creating master data, and demonstrating different approaches to modeling various manufacturing processes.
- The participants become acquainted with the application type of production orders to use it and configure to reduced extent
- Utilize your knowledge directly as a junior consultant in your first period of practice

Contents

- Creating and managing master data: material master, BOM, classes, characteristics, documents, overview of variant configuration, work center, routing, production resources, changes with and without history, mass change
- ERP production planning: production program planning, planning-based MRP, planning strategies for make-to-stock and make-to-order production, implementing requirements planning, processing of MRP results
- Order-controlled production with production orders: Overview of order categories and types, order structure/processing run, order creation/changing orders, interface with planning, order release (status management, availability checks), printing order documents, material staging and withdrawal, process integration (interfaces) and order control, confirmations, goods receipt, order settlement, archiving and deletion, information systems (overview), automation (mass processing, collection orders (multilevel order management))
- Overview of production with process orders, repetitive manufacturing, KANBAN and capacity planning

- Integrated case study: implementation of a fictitious demo company using specific business processes, configuration and mapping of the company structure, master data, and business processes in the SAP system ECC.
- Organizational data related to production planning and manufacturing
- Creating material master data and views required to support discrete and repetitive manufacturing
- Managing changes to the material master
- Functions and features of bills of material (BOMs) in detail
 - Standard BOM Functions
 - Phantom Assemblies
 - Multiple and Variant BOMs
- BOM maintenance and Reporting
- Work center master data and views required to support discrete manufacturing
 - Capacity Data
 - Scheduling Data
- Functions and features of discrete manufacturing Task lists (standard routings) in detail
 - Routing Sequences
 - Operational Details
 - Usage of Production Resources and Tools (PRTs)
- Task list Maintenance and reporting
- Managing master data changes with and without history
- User Interfaces:
 - SAP GUI
 - Engineering Workbench
 - PLM Web User Interface (New)
- Overview of order categories and types
- Order structure and processing
- Order creation and changing orders (routing and BOM selection, Integration of Documents),
- Interface to planning (SAP ECC (R/3)) and SAP SCM (APO))
- Order release (status management, availability checks)
- Printing order documents
- Material staging and withdrawal
- Order control (Detailed scheduling)
- Process Integration (XSteps, Control- and Workinstructions, xMii, PP- PDC)
- Confirmations, Shiftreports
- Goods receipt, order settlement
- Archiving and deletion
- Information Systems (Overview)
- Automation and mass processing

Student handbooks:

TSCM40 Planning & Manufacturing I

1. Preface
2. Overview of Production Planning in SAP ERP
3. Demand Management
4. Executing Material Requirements Planning
5. Technical Processes in Requirements Planning
6. Evaluating and Processing the MRP Results
7. Overview of SAP APO-PP/DS

TSCM42 Planning & Manufacturing II

1. Introduction
2. Capacity Requirements Planning (ERP)
3. Order-Controlled Production with Process Orders
4. Repetitive Manufacturing
5. Kanban
6. Bike International Organization
7. Business Blueprint

PLM114 Basic Data for Manufacturing and Product Management

1. Overview of Master Data for Product Management and Manufacturing
2. Organizational Data in Supply Chain Management
3. Material masters
4. Bills of Material
5. Modeling the Manufacturing Process
6. Task Lists
7. Advanced Bill of Material Functions
8. Advanced Routing Functions
9. Engineering Workbench

SCM310 Production Orders

1. Implementation
2. Order Creation/Order Changing
3. Integration with Planning
4. Order Release
5. Printing Order documents
6. Material Staging
7. Order Control
8. Confirmations

9. Goods Receipt
10. Order Settlement, Archiving and Deletion
11. Information Systems
12. Mass Processing and Automation
13. Collective Orders

Course Based on Software Component (s) and Release (s)

SAP ERP ECC 6.0 EHP4
SAP SCM 7.0

Course Version

Version: 092

Access to SAP ERP software and Training materials

SAP training materials will be provided for this course. Access to the latest SAP software will be granted through SAP's training clients.

Award

On successful completion of this course, you will receive an Executive Certificate in ERP (SAP SCM: Planning and Manufacturing) from Sydney Institute of ERP.

Campus Location

Level 2, 80 Mount Street, North Sydney, NSW 2060

SAP Certification

On completion of the course, you can sit for formal relevant certification exam with SAP Australia. On successful completion, you will receive a certificate from SAP Germany.