



TSCM40

TSCM42

Academia

Production Planning

En cualquier compañía el perfil productivo, cuando hablamos de fabricación, tenemos que alinear y gestionar diferentes recursos y procesos. La naturaleza y limitaciones de estos recursos están determinadas por las decisiones estratégicas que toma la estructura directiva de la compañía. Dentro de SAP ERP el día a día de la gestión de las plantas de producción se enmarca dentro del módulo de Control y Planeación de la Producción de SAP (SAP PP). El objetivo de SAP PP es asegurar que la producción se lleva a cabo de forma efectiva, alineando los procesos de producción con los tiempos de entrega prometidos a los clientes.

People in Technology -



〈Always;on_command, 〉



(PP) Production Planning



TSCM40 Planning / Manufacturing I 1

Unit 1:	Overview of Master Data for Production
	Lesson: Accessing and Creating Types of Data 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:	Material Masters
Unit 4:	Lesson: Describing the Structure of the Material Master RecordLesson: Maintaining Prerequisites for Creating Material MastersLesson: Creating a Material Master RecordExercise 1: Create a Material Master RecordLesson: Classifying Material Master RecordsExercise 2: Classify Material Master RecordsLesson: Managing the Material MasterExercise 3: Change a Material Master RecordBills of Material (BOMs)
	Lesson: Describing the Structure of the Bill of Material
	Exercise 4: Describe Bill of Material Structure
	Lesson: Managing the Validity of BOMs
	Exercise 5: Manage BOM Validity
	Lesson: Managing Bills of Material
	Exercise 6: Make Bills of Material Changes
	Exercise 7: Use FCM to Make BOM Changes
	Lesson: Analyzing Bills of Material
	Exercise 8: Use Multilevel BOM Reporting
	Lesson: Configuring Bills of Material
	Exercise 9: Configure a Bill of Material

People in Technology



Unit 5:	Modeling the Manufacturing Process
	Lesson: Describing the Structure of Master Data
	Lesson: Creating Work Centers
	Exercise 10: Create a Work Center
	Lesson: Creating Capacities in the Work Center
	Exercise 11: Create Capacities in the Work Center
	Lesson: Integrating Costing with the Work Center
Unit 6:	Task Lists
	Lesson: Describing the Structure of the Task List
	Exercise 12: Create a Simple Routing
	Lesson: Creating Material Assignments and Component Allocations
	Exercise 13: Create Material Assignments and Component
	Allocations
	Lesson: Creating Suboperations and User-Defined Fields
	Exercise 14: Create Suboperations and User-Defined Fields
	Lesson: Analyzing and Changing Task Lists
	Exercise 15: Make Task List Changes with ECM
Unit 7:	Advanced Bill of Material Functions
	Lesson: Describing Phantom Assemblies
	Lesson: Creating Co-Products and By-Products
	Exercise 16: Create Co-Products in Production Orders
	Lesson: Creating Alternative Components
	Exercise 17: Substitute Items in Production Orders
	Lesson: Creating Multiple BOMs
	Exercise 18: Create Multiple BOMs
	Lesson: Creating Variant BOMs
	Exercise 19: Create Variant BOMs

- Lesson: Using Mass Change and the Product Structure Browser
- Exercise 20: Use Mass Change and the Product Structure Browser



Academia (PP) Production Planning



Unit 8: Advanced Routing Functions

Lesson: Modeling Complex and Flexible Manufacturing
Exercise 21: Create Alternative and Parallel Sequences
Lesson: Modeling Alternative Manufacturing Processes
Exercise 22: Create Alternative Routings and Production Versions
Lesson: Creating Reference Operation Sets
Exercise 23: Create Reference Operation Sets
Lesson: Using Lead-Time Scheduling to Update the Material Master
Exercise 24: Use Lead-Time Scheduling and Material Master
Updates
Lesson: Scheduling Time Elements and Reduction in the Routing
Exercise 25: Schedule Time Elements and Reduction in the Routing
Lesson: Creating Trigger Points
Lesson: Using Scrap in the Routing
Exercise 26: Set Scrap in Production
Lesson: Creating Production Resources and Tools
Evercise 27: Create Production Resources and Tools

Unit 9: Alternative User Interfaces

Lesson: Describing the Structure of the Engineering Workbench Lesson: Setting the Work Area, Selection Criteria, and Effectivity Window
Exercise 28: Set Work Area, Selection Criteria, and Effectivity Window
Lesson: Navigating in the Engineering Workbench
Exercise 29: Navigate in the EWB
Lesson: Creating Engineering Workbench Work Areas
Exercise 30: Create Work Area
Lesson: Using the PLM Web User Interface
Exercise 31: Use PLM Web User Interface
Lesson: Using Status and Action Management
Exercise 32: Use Status and Action Management
Lesson: Synchronizing BOMs using Guided Structure
Synchronization
Exercise 33: Use Guided Structure Synchronization
Lesson: Tracking Changes in BOMs Using Redlining
Exercise 34: Use BOM Redlining



Academia (PP) Production Planning



TSCM40 Planning / Manufacturing I 2

Unit 1:	Overview of Production Planning in SAP ERP
	Lesson: Outlining the Supply Chain Planning Process Lesson: Outlining the Core Production Planning Process Exercise 1: Run the Production Planning Process
Unit 2:	Demand Management
	Lesson: Introducing Demand ManagementLesson: Planning Make-to-Stock Production Without ConsumptionLogicExercise 2: Post Goods Issue in Planning Strategy 10Lesson: Planning Make-to-Stock Production with ConsumptionLogicExercise 3: Apply Planning Strategy 40Exercise 4: Apply Planning Strategy 70Lesson: Planning Make-to-Order Production Without ConsumptionLogicLesson: Planning Make-to-Order Production Without ConsumptionLogicLesson: Planning Make-to-Order Production Without ConsumptionLogicLesson: Planning Make-to-Order Production with ConsumptionLogicLesson: Planning Make-to-Order Production with ConsumptionLogicExercise 5: Apply Planning Strategy 50Lesson: Assembly Processing in Make-to-Order ProductionLesson: Applying Demand Management EnhancementsExercise 6: Check Strategy and MRP Group Customizing
	Lesson: Analyzing Availability Check Basics
	Exercise 7: Check Availability for Sales Order

Material Requirements Planning Execution Unit 3:

Lesson: Outlining the Basic Concept of Material Requirements
Planning
Lesson: Setting up the MRP Prerequisites
Lesson: Executing the MRP Run
Lesson: Setting up the MRP Run
Exercise 8: Evaluate the Planning File
Lesson: Planning MRP Interactively
Exercise 9: Use the Simulation Mode
Lesson: Firming Planned Orders
Exercise 10: Apply Firming Mechanisms

People in Technology |



Unit 4:	Technical Processes of Requirements Planning
	Lesson: Calculating Net Requirements
	Lesson: Buffering Net Requirements Calculation
	Exercise 11: Apply Buffers in Net Requirements Calculation
	Lesson: Calculating Lot Sizes
	Exercise 12: Apply Lot-Sizing Procedures
	Lesson: Selecting Procurement Types
	Exercise 13: Apply Quota Arrangement in Production Planning
	Lesson: Setting Up Basic-Date Scheduling
	Exercise 14: Apply Basic-Date Scheduling
	Every instantial to the scheduling
	Exercise 15. Apply Lead-Time Scheduling
	Exercise 16: Evaluate the ROM Selection
	Exercise 17: Evaluate the Routing Selection
Unit 5:	MRP Results Processing and Evaluations
	Lesson: Comparing MRP List and Stock/Requirements List
	Exercise 18: Apply Functions of Stock/Requirements List
	Exercise 19: Apply Display Filter and Selection Rule
	Lesson: Applying the Planning Table
	Lesson: Identifying Exception Messages
	Exercise 20: Apply the Collective Display of MRP Lists
	Exercise 21: Perform a Rescheduling Check
	Lesson: Applying Additional Evaluation Aids
Unit 6:	Additional MRP Processes
	Lesson: Applying Master Production Scheduling
	Exercise 22: Perform Master Production Scheduling
	Lesson: Setting up Long-Term Planning
	Exercise 23: Set up a Long-Term Planning Scenario
	Lesson: Executing Long-Term Planning
	Exercise 24: Execute Long-Term Planning
	Lesson: Analyzing Multi-Site Planning
	Exercise 25: Perform Multi-Site Planning
	Lesson: MRP Areas Setup
	Exercise 26: Prepare the System for Planning with MRP Areas
	Lesson: Applying MRP Areas
	Exercise 27: Apply Storage Location MRP Areas



(PP) Production Planning



TSCM42 Planning / Manufacturing II 1

Unit 1:	Introduction to Production Orders
	Lesson: Outlining SAP Supply Chain Management Lesson: Characterizing Production Orders Lesson: Embed Production Orders in Supply Chain Management Exercise 1: Demonstrate the Basic Production Order Process
Unit 2:	Order Processing and Order Structure
	Lesson: Processing Production Orders Exercise 2: Process a Production Order Lesson: Analyzing the Production Order Structure Exercise 3: Explore the Production Order Structure
Unit 3:	Order Creation
	Lesson: Creating Production Orders Without Master DataExercise 4: Create a Production Order Without Master DataLesson: Creating Production Orders Based on Planned OrdersExercise 5: Create a Production Order Based on a Planned OrderLesson: Creating Production Orders Without Planned OrdersExercise 6: Create a Production Order Without a Planned OrderLesson: Defining Order TypesExercise 7: Define an Order TypeLesson: Creating Production Orders with Master DataExercise 8: Create a Production Orders with Master DataExercise 8: Create a Production Orders with Master DataExercise 9: Analyze Scheduling of a Production OrderLesson: Costing of Production OrdersExercise 10: Analyze Costing of a Production Order
Unit 4:	Order Release
	Lesson: Checking Material AvailabilityExercise 11: Check Material AvailabilityLesson: Checking Capacity AvailabilityLesson: Checking PRT AvailabilityLesson: Planning CapacitiesExercise 12: Plan Capacities for Production OrdersLesson: Releasing Production OrdersExercise 13: Release a Production Order

People in Technology 🦗

pitmexico.com

Academia	Production Planning
Unit 5:	Order Documents
	Lesson: Setting up Order Print Control Lesson: Printing Production Orders Exercise 14: Print Order Documents
Unit 6:	Material Staging
	Lesson: Staging Material Exercise 15: Stage Material for Production Orders Using the Pull List Exercise 16: Stage Material for Production Orders Using KANBAN Lesson: Withdrawing Material Exercise 17: Perform Goods Issue for Production Order
Unit 7:	Confirmations
	Lesson: Parameterizing ConfirmationsExercise 18: Set the Parameters for Order ConfirmationLesson: Executing ConfirmationsExercise 19: Carry Out Confirmations for Production Orders
Unit 8:	Goods Receipt
	Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts Exercise 20: Post Goods Receipts
Unit 9:	Order Settlement, Archiving, and Deletion
	Lesson: Settling Production Orders Exercise 21: Settle Orders Lesson: Archiving and Deleting Exercise 22: Archive and Delete Production Orders
Unit 10:	Information Systems and Automation
	Lesson: Applying Information Systems Lesson: Automating and Mass Processing Lesson: Applying Collective Orders Lesson: Applying Trigger Points





Unit 11:	Further	Functions	and	Enhancements
----------	---------	-----------	-----	---------------------

Lesson: Applying Order Split
Exercise 23: Apply Order Split Functionality
Lesson: Applying Shift Reports and Shift Notes
Exercise 24: Apply Shift Reports and Shift Notes
Lesson: Applying Work-in-Process (WIP) Batches
Exercise 25: Apply WIP Batches
Lesson: Applying SAP Execution Steps (XSteps) for Routings and
Production Orders
Exercise 26: Apply XSteps for Routings and Production Orders
Lesson: Outlining the Production Planning – Plant Data Collection
(PP-PDC) Interface
Lesson: Outlining SAP Manufacturing Integration and Intelligence
(SAP MII) in Shop Floor Control
Lesson: Applying Handling Units in Production



(PP) Production Planning



TSCM42 Planning / Manufacturing II 2

Unit 1:	Introduction to Production Execution
	Lesson: Distinguishing Production Types
Unit 2:	Production with Process Orders
	 Lesson: Drafting Process Orders Exercise 1: Analyze Master Data of Process Orders Lesson: Creating and Interpreting Process Orders Exercise 2: Process Planning for Process Orders Exercise 3: Evaluate the Results of MRP Exercise 4: Create Process Orders by Conversion of Planned Orders Exercise 5: Evaluate Details of the Process Order Lesson: Executing Process Orders Exercise 6: Release a Process Orders Exercise 7: Execute a Process Order Using the PI Sheet Exercise 8: Review the Results of Execution on Production Planning Lesson: Using Additional Functions with Process Orders
Unit 3:	Repetitive Manufacturing
	Lesson: Drafting Repetitive Manufacturing Exercise 9: Check the Material Master of Repetitive Manufacturing Exercise 10: Check the Bill of Material of Repetitive Manufacturing Exercise 11: Check the Routing of Repetitive Manufacturing Exercise 12: Check the Product Cost Collector of Repetitive Manufacturing
	Lesson: Drafting Repetitive ManufacturingExercise 9: Check the Material Master of Repetitive ManufacturingExercise 10: Check the Bill of Material of Repetitive ManufacturingExercise 11: Check the Routing of Repetitive ManufacturingExercise 12: Check the Product Cost Collector of RepetitiveManufacturingLesson: Preparing Repetitive ManufacturingExercise 13: Verify Material Master Settings for RepetitiveManufacturingExercise 14: Create a Production Program for RepetitiveManufacturingExercise 15: MRP in Repetitive ManufacturingLesson: Planning Line Loading in Repetitive ManufacturingExercise 16: Perform Line Loading in Repetitive ManufacturingLesson: Using Material Staging and ConfirmationExercise 17: Perform Material Staging for Repetitive Manufacturing

People in Technology Street



Unit 4:	The Kanban Principle
	Lesson: Drafting Kanban
	Lesson: Using Kanban in Production
	Exercise 19: Check a Kanban Material
	Exercise 20: Check the Kanban Control Cycle
	Exercise 21: Proceed Kanban Execution
Unit 5:	Capacity Requirements Planning (ERP)
	Lesson: Introducing Capacity Requirements Planning
	Lesson: Evaluating Capacity
	Exercise 22: Use the Standard Overview
	Lesson: Leveling Capacity in the Tabular Planning Table
	Exercise 23: Use the Tabular Capacity Planning Table
	Lesson: Maintaining Available Capacity
	Lesson: Leveling Capacity in the Graphical Planning Table
	Exercise 24: Apply Planning Strategies in the Graphical Planning
	Table
	Lesson: Evaluating Capacity Using Business Intelligence
	Exercise 25: Use BI to Perform Capacity Evaluation