# TSCM40

Planning/Manufacturing I - Part 1

xi Course Overview		verview
1	Unit 1:	Overview of Master Data for Production
2 7		Lesson: Accessing and Creating Types of Data Lesson: Using Organizational Elements and Master Data in Production
21	Unit 2:	Organizational Data in Supply Chain Management
22 26 31		Lesson: Creating a Plant in SAP ERP Lesson: Creating a Storage Location in SAP ERP Lesson: Creating MRP Areas
39	Unit 3:	Material Masters
40 44 52 57 70 77 84 93		Lesson: Describing the Structure of the Material Master Record Lesson: Maintaining Prerequisites for Creating Material Masters Lesson: Creating a Material Master Record Exercise 1: Create a Material Master Record Lesson: Classifying Material Master Records Exercise 2: Classify Material Master Records Lesson: Managing the Material Master Exercise 3: Change a Material Master Record
117	Unit 4:	Bills of Material (BOMs)
119 129 135 141 149 157 166 171 175 179 185		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 Lesson: Using ECM to Change BOMs Exercise 7: Use ECM 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

209	Unit 5:	Modeling the Manufacturing Process
210		Lesson: Describing the Structure of Master Data
214		Lesson: Creating Work Centers
223		Exercise 10: Create a Work Center
232		Lesson: Creating Capacities in the Work Center
235		Exercise 11: Create Capacities in the Work Center
246		Lesson: Integrating Costing with the Work Center
253	Unit 6:	Task Lists
254		Lesson: Describing the Structure of the Task List
261		Exercise 12: Create a Simple Routing
271		Lesson: Creating Material Assignments and Component Allocations
275		Exercise 13: Create Material Assignments and Component
		Allocations
282		Lesson: Creating Suboperations and User-Defined Fields
287		Exercise 14: Create Suboperations and User-Defined Fields
292		Lesson: Analyzing and Changing Task Lists
297		Exercise 15: Make Task List Changes with ECM
313	Unit 7:	Advanced Bill of Material Functions
315		Lesson: Describing Phantom Assemblies
318		Lesson: Creating Co-Products and By-Products
321		Exercise 16: Create Co-Products in Production Orders
326		Lesson: Creating Alternative Components
333		Exercise 17: Substitute Items in Production Orders
345		Lesson: Creating Multiple BOMs
347		Exercise 18: Create Multiple BOMs
		Lesson: Creating Variant BOMs
356		Exercise 19: Create Variant BOMs
356 361		
		Lesson: Using Mass Change and the Product Structure Browser

387	Unit 8:	Advanced Routing Functions
389		Lesson: Modeling Complex and Flexible Manufacturing
393		Exercise 21: Create Alternative and Parallel Sequences
400		Lesson: Modeling Alternative Manufacturing Processes
403		Exercise 22: Create Alternative Routings and Production Versions
412		Lesson: Creating Reference Operation Sets
415		Exercise 23: Create Reference Operation Sets
422		Lesson: Using Lead-Time Scheduling to Update the Material Master
425		Exercise 24: Use Lead-Time Scheduling and Material Master Updates
430		Lesson: Scheduling Time Elements and Reduction in the Routing
437		Exercise 25: Schedule Time Elements and Reduction in the Routing
443		Lesson: Creating Trigger Points
447		Lesson: Using Scrap in the Routing
451		Exercise 26: Set Scrap in Production
459		Lesson: Creating Production Resources and Tools
461		Exercise 27: Create Production Resources and Tools
479	Unit 9:	Alternative User Interfaces
481		Lesson: Describing the Structure of the Engineering Workbench
486		Lesson: Setting the Work Area, Selection Criteria, and Effectivity
		Window
489		Exercise 28: Set Work Area, Selection Criteria, and Effectivity
		Window
493		Lesson: Navigating in the Engineering Workbench
497		Exercise 29: Navigate in the EWB
505		Lesson: Creating Engineering Workbench Work Areas
513		Exercise 30: Create Work Area
518		Lesson: Using the PLM Web User Interface
531		Exercise 31: Use PLM Web User Interface
536		Lesson: Using Status and Action Management
543		Exercise 32: Use Status and Action Management
556		
		Lesson: Synchronizing BOMs using Guided Structure
FC1		Synchronization
561		Synchronization Exercise 33: Use Guided Structure Synchronization
561 568 575		Synchronization

## **TSCM40\_2**

Planning/Manufacturing I - Part 2

xi	Course C	Overview
1	Unit 1:	Overview of Production Planning in SAP ERP
2		Lesson: Outlining the Supply Chain Planning Process
5		Lesson: Outlining the Core Production Planning Process
9		Exercise 1: Run the Production Planning Process
23	Unit 2:	Demand Management
25		Lesson: Introducing Demand Management
31		Lesson: Planning Make-to-Stock Production Without Consumption Logic
35		Exercise 2: Post Goods Issue in Planning Strategy 10
44		Lesson: Planning Make-to-Stock Production with Consumption Logic
51		Exercise 3: Apply Planning Strategy 40
69		Exercise 4: Apply Planning Strategy 70
79		Lesson: Planning Make-to-Order Production Without Consumption Logic
83		Lesson: Planning Make-to-Order Production with Consumption Logic
89		Exercise 5: Apply Planning Strategy 50
100		Lesson: Assembly Processing in Make-to-Order Production
103		Lesson: Applying Demand Management Enhancements
111		Exercise 6: Check Strategy and MRP Group Customizing
118		Lesson: Analyzing Availability Check Basics
123		Exercise 7: Check Availability for Sales Order
143	Unit 3:	Material Requirements Planning Execution
145		Lesson: Outlining the Basic Concept of Material Requirements Planning
148		Lesson: Setting up the MRP Prerequisites
151		Lesson: Executing the MRP Run
155		Lesson: Setting up the MRP Run
161		Exercise 8: Evaluate the Planning File
179		Lesson: Planning MRP Interactively
187		Exercise 9: Use the Simulation Mode
201		Lesson: Firming Planned Orders
207		Exercise 10: Apply Firming Mechanisms

231	Unit 4:	Technical Processes of Requirements Planning
233		Lesson: Calculating Net Requirements
236		Lesson: Buffering Net Requirements Calculation
245		Exercise 11: Apply Buffers in Net Requirements Calculation
261		Lesson: Calculating Lot Sizes
271		Exercise 12: Apply Lot-Sizing Procedures
280		Lesson: Selecting Procurement Types
283		Exercise 13: Apply Quota Arrangement in Production Planning
293		Lesson: Setting Up Basic-Date Scheduling
299		Exercise 14: Apply Basic-Date Scheduling
308		Lesson: Setting up Lead-Time Scheduling
313		Exercise 15: Apply Lead-Time Scheduling
322		Lesson: Selecting BOM and Routing
335		Exercise 16: Evaluate the BOM Selection
341		Exercise 17: Evaluate the Routing Selection
355	Unit 5:	MRP Results Processing and Evaluations
356		Lesson: Comparing MRP List and Stock/Requirements List
367		Exercise 18: Apply Functions of Stock/Requirements List
375		Exercise 19: Apply Display Filter and Selection Rule
380		Lesson: Applying the Planning Table
384		Lesson: Identifying Exception Messages
391		Exercise 20: Apply the Collective Display of MRP Lists
395		Exercise 21: Perform a Rescheduling Check
405		Lesson: Applying Additional Evaluation Aids
415	Unit 6:	Additional MRP Processes
417		Lesson: Applying Master Production Scheduling
421		Exercise 22: Perform Master Production Scheduling
430		Lesson: Setting up Long-Term Planning
439		Exercise 23: Set up a Long-Term Planning Scenario
448		Lesson: Executing Long-Term Planning
459		Exercise 24: Execute Long-Term Planning
471		Lesson: Analyzing Multi-Site Planning
479		Exercise 25: Perform Multi-Site Planning
487		Lesson: MRP Areas Setup
495		Exercise 26: Prepare the System for Planning with MRP Areas
501		Lesson: Applying MRP Areas
507		Exercise 27: Apply Storage Location MRP Areas

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Planning/Manufacturing II - Part 1

	xi	Course Overview		
	1	Unit 1:	Introduction to Production Orders	
i	2		Lesson: Outlining SAP Supply Chain Management	
	8		Lesson: Characterizing Production Orders	
	15		Lesson: Embed Production Orders in Supply Chain Management	
	19		Exercise 1: Demonstrate the Basic Production Order Process	
ı	29	Unit 2:	Order Processing and Order Structure	
Ī	30		Lesson: Processing Production Orders	
	33		Exercise 2: Process a Production Order	
	42		Lesson: Analyzing the Production Order Structure	
	53		Exercise 3: Explore the Production Order Structure	
	63	Unit 3:	Order Creation	
i	65		Lesson: Creating Production Orders Without Master Data	
	67		Exercise 4: Create a Production Order Without Master Data	
	76		Lesson: Creating Production Orders Based on Planned Orders	
	83		Exercise 5: Create a Production Order Based on a Planned Order	
	94		Lesson: Creating Production Orders Without Planned Orders	
	97		Exercise 6: Create a Production Order Without a Planned Order	
	104		Lesson: Defining Order Types	
	107		Exercise 7: Define an Order Type	
	111		Lesson: Creating Production Orders with Master Data	
	127		Exercise 8: Create a Production Order with Master Data	
	136		Lesson: Scheduling of Production Orders	
	141		Exercise 9: Analyze Scheduling of a Production Order	
	151		Lesson: Costing of Production Orders	
	153		Exercise 10: Analyze Costing of a Production Order	
ı	165	Unit 4:	Order Release	
	166		Lesson: Checking Material Availability	
	169		Exercise 11: Check Material Availability	
	190		Lesson: Checking Capacity Availability	
	192		Lesson: Checking PRT Availability	
	194		Lesson: Planning Capacities	
	201		Exercise 12: Plan Capacities for Production Orders	
	208		Lesson: Releasing Production Orders	
	213		Exercise 13: Release a Production Order	

229	Unit 5:	Order Documents
230		Lesson: Setting up Order Print Control
235		Lesson: Printing Production Orders
237		Exercise 14: Print Order Documents
253	Unit 6:	Material Staging
254		Lesson: Staging Material
269		Exercise 15: Stage Material for Production Orders Using the Pull List
281		Exercise 16: Stage Material for Production Orders Using KANBAN
295		Lesson: Withdrawing Material
301		Exercise 17: Perform Goods Issue for Production Order
315	Unit 7:	Confirmations
316		Lesson: Parameterizing Confirmations
321		Exercise 18: Set the Parameters for Order Confirmation
325		Lesson: Executing Confirmations
333		Exercise 19: Carry Out Confirmations for Production Orders
351	Unit 8:	Goods Receipt
<b>351</b>	Unit 8:	Goods Receipt  Lesson: Enabling Goods Receipts
	Unit 8:	
352	Unit 8:	Lesson: Enabling Goods Receipts
352 356	Unit 8: Unit 9:	Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts
352 356 359		Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts Exercise 20: Post Goods Receipts
352 356 359 <b>373</b>		Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts Exercise 20: Post Goods Receipts  Order Settlement, Archiving, and Deletion
352 356 359 <b>373</b> 374		Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts Exercise 20: Post Goods Receipts  Order Settlement, Archiving, and Deletion Lesson: Settling Production Orders
352 356 359 <b>373</b> 374 379		Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts Exercise 20: Post Goods Receipts  Order Settlement, Archiving, and Deletion  Lesson: Settling Production Orders Exercise 21: Settle Orders
352 356 359 <b>373</b> 374 379 387		Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts Exercise 20: Post Goods Receipts  Order Settlement, Archiving, and Deletion  Lesson: Settling Production Orders Exercise 21: Settle Orders Lesson: Archiving and Deleting
352 356 359 <b>373</b> 374 379 387 391	Unit 9:	Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts Exercise 20: Post Goods Receipts  Order Settlement, Archiving, and Deletion  Lesson: Settling Production Orders Exercise 21: Settle Orders Lesson: Archiving and Deleting Exercise 22: Archive and Delete Production Orders
352 356 359 <b>373</b> 374 379 387 391 <b>405</b>	Unit 9:	Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts Exercise 20: Post Goods Receipts  Order Settlement, Archiving, and Deletion  Lesson: Settling Production Orders Exercise 21: Settle Orders Lesson: Archiving and Deleting Exercise 22: Archive and Delete Production Orders  Information Systems and Automation
352 356 359 <b>373</b> 374 379 387 391 <b>405</b>	Unit 9:	Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts Exercise 20: Post Goods Receipts  Order Settlement, Archiving, and Deletion  Lesson: Settling Production Orders Exercise 21: Settle Orders Lesson: Archiving and Deleting Exercise 22: Archive and Delete Production Orders  Information Systems and Automation  Lesson: Applying Information Systems
352 356 359 <b>373</b> 374 379 387 391 <b>405</b> 406 409	Unit 9:	Lesson: Enabling Goods Receipts Lesson: Posting Goods Receipts Exercise 20: Post Goods Receipts  Order Settlement, Archiving, and Deletion  Lesson: Settling Production Orders Exercise 21: Settle Orders Lesson: Archiving and Deleting Exercise 22: Archive and Delete Production Orders  Information Systems and Automation  Lesson: Applying Information Systems Lesson: Automating and Mass Processing

423	Unit 11:	Further Functions and Enhancements
425		Lesson: Applying Order Split
431		Exercise 23: Apply Order Split Functionality
455		Lesson: Applying Shift Reports and Shift Notes
483		Exercise 24: Apply Shift Reports and Shift Notes
500		Lesson: Applying Work-in-Process (WIP) Batches
515		Exercise 25: Apply WIP Batches
531		Lesson: Applying SAP Execution Steps (XSteps) for Routings and Production Orders
543		Exercise 26: Apply XSteps for Routings and Production Orders
554		Lesson: Outlining the Production Planning – Plant Data Collection (PP-PDC) Interface
557		Lesson: Outlining SAP Manufacturing Integration and Intelligence (SAP MII) in Shop Floor Control
560		Lesson: Applying Handling Units in Production

## TSCM42

Planning/Manufacturing II - Part 2

ix	Course O	verview
1	Unit 1:	Introduction to Production Execution
2		Lesson: Distinguishing Production Types
9	Unit 2:	Production with Process Orders
10		Lesson: Drafting Process Orders
19		Exercise 1: Analyze Master Data of Process Orders
25		Lesson: Creating and Interpreting Process Orders
33		Exercise 2: Process Planning for Process Orders
39		Exercise 3: Evaluate the Results of MRP
41		Exercise 4: Create Process Orders by Conversion of Planned Orders
45		Exercise 5: Evaluate Details of the Process Order
51		Lesson: Executing Process Orders
57		Exercise 6: Release a Process Order
69		Exercise 7: Execute a Process Order Using the PI Sheet
75		Exercise 8: Review the Results of Execution on Production Planning
79		Lesson: Using Additional Functions with Process Orders
87	Unit 3:	Repetitive Manufacturing
89		Lesson: Drafting Repetitive Manufacturing
95		Exercise 9: Check the Material Master of Repetitive Manufacturing
99		Exercise 10: Check the Bill of Material of Repetitive Manufacturing
101		Exercise 11: Check the Routing of Repetitive Manufacturing
105		Exercise 12: Check the Product Cost Collector of Repetitive
		Manufacturing
108		Lesson: Preparing Repetitive Manufacturing
113		Exercise 13: Verify Material Master Settings for Repetitive
		Manufacturing
115		Exercise 14: Create a Production Program for Repetitive
		Manufacturing
117		Exercise 15: MRP in Repetitive Manufacturing
121		Lesson: Planning Line Loading in Repetitive Manufacturing
125		Exercise 16: Perform Line Loading in Repetitive Manufacturing
131		Lesson: Using Material Staging and Confirmation
135		Exercise 17: Perform Material Staging for Repetitive Manufacturing
139		Exercise 18: Confirm Production Quantities in Repetitive
143		Manufacturing Lesson: Integrating Costing, Controlling, and Reporting

151	Unit 4:	The Kanban Principle
152		Lesson: Drafting Kanban
155		Lesson: Using Kanban in Production
163		Exercise 19: Check a Kanban Material
167		Exercise 20: Check the Kanban Control Cycle
169		Exercise 21: Proceed Kanban Execution
175	Unit 5:	Capacity Requirements Planning (ERP)
177		Lesson: Introducing Capacity Requirements Planning
180		Lesson: Evaluating Capacity
191		Exercise 22: Use the Standard Overview
198		Lesson: Leveling Capacity in the Tabular Planning Table
205		Exercise 23: Use the Tabular Capacity Planning Table
210		Lesson: Maintaining Available Capacity
213		Lesson: Leveling Capacity in the Graphical Planning Table
221		Exercise 24: Apply Planning Strategies in the Graphical Planning Table
227		Lesson: Evaluating Capacity Using Business Intelligence
235		Exercise 25: Use BI to Perform Capacity Evaluation