# SCM130

## SAP ERP Planning and Manufacturing Overview

**COURSE OUTLINE**

Course Version: 15
Course Duration: 5 Day(s)

# SAP Copyrights and Trademarks

© 2015 SAP SE. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE. The information contained herein may be changed without prior notice.

Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors.

- Microsoft, Windows, Excel, Outlook, and PowerPoint are registered trademarks of Microsoft Corporation.
- IBM, DB2, DB2 Universal Database, System i, System i5, System p, System p5, System x, System z, System z10, System z9, z10, z9, iSeries, pSeries, xSeries, zSeries, eServer, z/VM, z/OS, i5/OS, S/390, OS/390, OS/400, AS/400, S/390 Parallel Enterprise Server, PowerVM, Power Architecture, POWER6+, POWER6, POWER5+, POWER5, POWER, OpenPower, PowerPC, BatchPipes, BladeCenter, System Storage, GPFS, HACMP, RETAIN, DB2 Connect, RACF, Redbooks, OS/2, Parallel Sysplex, MVS/ESA, AIX, Intelligent Miner, WebSphere, Netfinity, Tivoli and Informix are trademarks or registered trademarks of IBM Corporation.
- Linux is the registered trademark of Linus Torvalds in the U.S. and other countries.
- Adobe, the Adobe logo, Acrobat, PostScript, and Reader are either trademarks or registered trademarks of Adobe Systems Incorporated in the United States and/or other countries.
- Oracle is a registered trademark of Oracle Corporation
- UNIX, X/Open, OSF/1, and Motif are registered trademarks of the Open Group.
- Citrix, ICA, Program Neighborhood, MetaFrame, WinFrame, VideoFrame, and MultiWin are trademarks or registered trademarks of Citrix Systems, Inc.
- HTML, XML, XHTML and W3C are trademarks or registered trademarks of W3C®, World Wide Web Consortium, Massachusetts Institute of Technology.
- Java is a registered trademark of Sun Microsystems, Inc.
- JavaScript is a registered trademark of Sun Microsystems, Inc., used under license for technology invented and implemented by Netscape.
- SAP, R/3, SAP NetWeaver, Duet, PartnerEdge, ByDesign, SAP BusinessObjects Explorer, StreamWork, and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE in Germany and other countries.
- Business Objects and the Business Objects logo, BusinessObjects, Crystal Reports, Crystal Decisions, Web Intelligence, Xcelsius, and other Business Objects products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Business Objects Software Ltd. Business Objects is an SAP company.
- Sybase and Adaptive Server, iAnywhere, Sybase 365, SQL Anywhere, and other Sybase products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of Sybase, Inc. Sybase is an SAP company.

All other product and service names mentioned are the trademarks of their respective companies. Data contained in this document serves informational purposes only. National product specifications may vary.

These materials are subject to change without notice. These materials are provided by SAP SE and its affiliated companies ("SAP Group") for informational purposes only, without representation or warranty of any kind, and SAP Group shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP Group products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# 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* |

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# Contents


| | | |
|---|---|---|
| ix | Course Overview | |
| **1** | **Unit 1:** | **Supply Chain Planning Overview** |
| 1 | | Lesson: Outlining Supply Chain Planning |
| **3** | **Unit 2:** | **Planning-Specific Master Data** |
| 3 | | Lesson: Checking Supply Chain Master Data |
| 3 | | Lesson: Checking Production Master Data |
| **5** | **Unit 3:** | **Sales and Operations Planning** |
| 5 | | Lesson: Outlining Flexible Planning |
| 5 | | Lesson: Executing Standard Sales and Operations Planning |
| 5 | | Lesson: Releasing a Standard Sales and Operations Plan |
| **7** | **Unit 4:** | **Demand Management** |
| 7 | | Lesson: Setting Up a Demand Program |
| 7 | | Lesson: Planning Make-to-Stock Production |
| 7 | | Lesson: Planning Make-to-Order Production |
| 7 | | Lesson: Checking Material Availability |
| **9** | **Unit 5:** | **Material Requirements Planning (MRP)** |
| 9 | | Lesson: Outlining MRP Procedures |
| 9 | | Lesson: Executing Material Requirements Planning |
| 9 | | Lesson: Interpreting the Results of Material Requirements Planning |
| **11** | **Unit 6:** | **Long-Term Planning** |
| 11 | | Lesson: Creating a Long-Term Planning Scenario |
| 11 | | Lesson: Executing Long-Term Planning |
| **13** | **Unit 7:** | **Production Execution Overview** |
| 13 | | Lesson: Distinguishing Production Types |
| **15** | **Unit 8:** | **Production Order Processing** |
| 15 | | Lesson: Outlining Production Orders |
| 15 | | Lesson: Creating Production Orders |
| 15 | | Lesson: Releasing Production Orders |
| 15 | | Lesson: Executing Material Staging for Production Orders |
| 15 | | Lesson: Executing Confirmation and Goods Receipt for Production Orders |
| 15 | | Lesson: Evaluating Production Orders |


© Copyright . All rights reserved.

| | | |
|---|---|---|
| **17** | **Unit 9:** | **Process Order Processing** |
| 17 | | Lesson: Outlining Process Orders |
| 17 | | Lesson: Creating and Interpreting Process Orders |
| 17 | | Lesson: Executing Process Orders |
| 17 | | Lesson: Using Additional Functions with Process Orders |
| **19** | **Unit 10:** | **Repetitive Manufacturing Processing** |
| 19 | | Lesson: Outlining Repetitive Manufacturing |
| 19 | | Lesson: Preparing Repetitive Manufacturing |
| 19 | | Lesson: Planning Line Loading in Repetitive Manufacturing |
| 19 | | Lesson: Using Material Staging and Confirmation |
| 19 | | Lesson: Integrating Costing, Controlling, and Reporting |
| **21** | **Unit 11:** | **Kanban Principles in Production** |
| 21 | | Lesson: Outlining Kanban |
| 21 | | Lesson: Using Kanban in Production |



© Copyright . All rights reserved.

# Course Overview

**TARGET AUDIENCE**

This course is intended for the following audiences:

- Application Consultant
- Business Process Architect
- Business Process Owner/Team Lead/Power User
- User

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# UNIT 1

# Supply Chain Planning Overview

## Lesson 1: Outlining Supply Chain Planning

### Lesson Objectives

After completing this lesson, you will be able to:

- Outline Supply Chain Planning

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# UNIT 2 Planning-Specific Master Data

## Lesson 1: Checking Supply Chain Master Data

### Lesson Objectives

After completing this lesson, you will be able to:

- Check supply chain master data

## Lesson 2: Checking Production Master Data

### Lesson Objectives

After completing this lesson, you will be able to:

- Check production master data

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# UNIT 3 Sales and Operations Planning

## Lesson 1: Outlining Flexible Planning

### Lesson Objectives

After completing this lesson, you will be able to:

- Outline flexible planning

## Lesson 2: Executing Standard Sales and Operations Planning

### Lesson Objectives

After completing this lesson, you will be able to:

- Execute standard sales and operations planning

## Lesson 3: Releasing a Standard Sales and Operations Plan

### Lesson Objectives

After completing this lesson, you will be able to:

- Release a standard sales and operations plan

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# UNIT 4 Demand Management

## Lesson 1: Setting Up a Demand Program

### Lesson Objectives

After completing this lesson, you will be able to:

- Set up a demand program

## Lesson 2: Planning Make-to-Stock Production

### Lesson Objectives

After completing this lesson, you will be able to:

- Plan make-to-stock production

## Lesson 3: Planning Make-to-Order Production

### Lesson Objectives

After completing this lesson, you will be able to:

- Plan make-to-order production

## Lesson 4: Checking Material Availability

### Lesson Objectives

After completing this lesson, you will be able to:

- Check material availabilty

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# UNIT 5 Material Requirements Planning (MRP)

## Lesson 1: Outlining MRP Procedures

### Lesson Objectives

After completing this lesson, you will be able to:

- Outline MRP procedures

## Lesson 2: Executing Material Requirements Planning

### Lesson Objectives

After completing this lesson, you will be able to:

- Plan material requirements

## Lesson 3: Interpreting the Results of Material Requirements Planning

### Lesson Objectives

After completing this lesson, you will be able to:

- Interpret the results of MRP

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# UNIT 6 Long-Term Planning

## Lesson 1: Creating a Long-Term Planning Scenario

### Lesson Objectives

After completing this lesson, you will be able to:

- Create a long-term planning scenario

## Lesson 2: Executing Long-Term Planning

### Lesson Objectives

After completing this lesson, you will be able to:

- Execute long-term planning

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# UNIT 7 Production Execution Overview

## Lesson 1: Distinguishing Production Types

### Lesson Objectives

After completing this lesson, you will be able to:

- Distinguish production types

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# UNIT 8 Production Order Processing

## Lesson 1: Outlining Production Orders

### Lesson Objectives
After completing this lesson, you will be able to:

- Outline production orders

## Lesson 2: Creating Production Orders

### Lesson Objectives
After completing this lesson, you will be able to:

- Create production orders

## Lesson 3: Releasing Production Orders

### Lesson Objectives
After completing this lesson, you will be able to:

- Release a production order

## Lesson 4: Executing Material Staging for Production Orders

### Lesson Objectives
After completing this lesson, you will be able to:

- Execute material staging for production orders

## Lesson 5: Executing Confirmation and Goods Receipt for Production Orders

### Lesson Objectives
After completing this lesson, you will be able to:

- Execute confirmation and goods receipt for production orders

## Lesson 6: Evaluating Production Orders

© Copyright . All rights reserved.

## Lesson Objectives

After completing this lesson, you will be able to:

- Evaluate production orders


© Copyright . All rights reserved.

# UNIT 9 Process Order Processing

## Lesson 1: Outlining Process Orders

### Lesson Objectives

After completing this lesson, you will be able to:

- Outline process orders

## Lesson 2: Creating and Interpreting Process Orders

### Lesson Objectives

After completing this lesson, you will be able to:

- Create and interpret process orders

## Lesson 3: Executing Process Orders

### Lesson Objectives

After completing this lesson, you will be able to:

- Execute process orders

## Lesson 4: Using Additional Functions with Process Orders

### Lesson Objectives

After completing this lesson, you will be able to:

- Use additional functions with process orders

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# UNIT 10 Repetitive Manufacturing Processing

## Lesson 1: Outlining Repetitive Manufacturing

### Lesson Objectives

After completing this lesson, you will be able to:

- Outline repetitive manufacturing

## Lesson 2: Preparing Repetitive Manufacturing

### Lesson Objectives

After completing this lesson, you will be able to:

- Prepare repetitive manufacturing

## Lesson 3: Planning Line Loading in Repetitive Manufacturing

### Lesson Objectives

After completing this lesson, you will be able to:

- Plan line loading in repetitive manufacturing

## Lesson 4: Using Material Staging and Confirmation

### Lesson Objectives

After completing this lesson, you will be able to:

- Use material staging and confirmation

## Lesson 5: Integrating Costing, Controlling, and Reporting

### Lesson Objectives

After completing this lesson, you will be able to:

- Integrate costing, controlling, and reporting

© Copyright . All rights reserved.

© Copyright . All rights reserved.

# UNIT 11 Kanban Principles in Production

## Lesson 1: Outlining Kanban

### Lesson Objectives

After completing this lesson, you will be able to:

- Outline Kanban

## Lesson 2: Using Kanban in Production

### Lesson Objectives

After completing this lesson, you will be able to:

- Use Kanban in production

© Copyright . All rights reserved.