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Course Overview

This course provides information about using computerized kanban processing with SAP.

Target Audience
This course is intended for the following audiences:

• Project team leaders and other employees
• Project team members (consultants, organizers) responsible for planning and production using kanban material staging.

Course Prerequisites
Required Knowledge

• SCM300 Supply Chain Manufacturing Overview

Hint: MM customers who are taking the course as part of the MM curriculum for information about processes for external procurement and stock transfer only (not for production control) must have knowledge in the areas of R/3 and ECC purchasing and inventory management. Training course SCM300 is not required in this case.

• SCM500 External Procurement Processes

Recommended Knowledge

• SAPSCM Overview of the SAP SCM application
• SCM100 Planning Overview ERP
Course Goals
This course will prepare the participant to:

- Use computerized KANBAN processing with SAP

  The topics are:
  - master data in KANBAN
  - replenishment strategies in KANBAN
  - special processes in KANBAN
  - error processing in KANBAN
  - evaluations in KANBAN

Main Business Scenario:
You are in a manufacturing company. In your plant 1200 you produce PC assemblies.

In order to keep the control effort to a minimum and to reduce stocks and lead times, you plan to use the electronic KANBAN processing with SAP for certain materials.

Course Objectives
After completing this course, the participant will be able to:

- Use the individual replenishment strategies in KANBAN
- Describe relationships
- Make basic system settings in Customizing
Unit 1
Kanban Overview

Unit Overview
This unit introduces the SAP application of computerized kanban. First, this unit will discuss the subsequent system examples, followed by an overview of the basic kanban process and its general characteristics.

Lesson: Overview of the System Examples
Lesson Objectives
After completing this lesson, the participant will be able to:
• Get an idea of the main scenarios dealt with in the course within the kanban environment

Lesson: Introduction to the Kanban Concept
Lesson Objectives
After completing this lesson, the participant will be able to:
• Explain the kanban principle

Lesson: Characteristics of Kanban
Lesson Objectives
After completing this lesson, the participant will be able to:
• Compare demand planning with kanban procedures
• Explain the advantages of (computerized) kanban
• Explain the business environment for kanban
Unit 2
Kanban Master Data

Unit Overview
In this unit the basic technical data and according properties are introduced.

Lesson: Supply Area
Lesson Objectives
After completing this lesson, the participant will be able to:
• Create a production supply area (PSA) in the ECC System

Lesson: Control Cycle
Lesson Objectives
After completing this lesson, the participant will be able to:
• Create a kanban control cycle in ECC

Lesson: Organization of Production
Lesson Objectives
After completing this lesson, the participant will be able to:
• Organize the material flow with kanban using PSA and control cycles
Unit 3
General Procedure

Unit Overview
This unit focuses on the basic concept and mechanisms of kanban status change and the mechanisms involved.

Lesson: Status Change and System Activities
Lesson Objectives
After completing this lesson, the participant will be able to:
• Perform a kanban status change with different applications

Lesson: Applications for Changing the Kanban Status
Lesson Objectives
After completing this lesson, the participant will be able to:
• Use the kanban board and the kanban signal to change the kanban status
• Describe other options for changing the kanban status

Lesson: Printing Kanban Cards
Lesson Objectives
After completing this lesson, the participant will be able to:
• Print kanban cards

Lesson: Focusing on Physical Stocks
Lesson Objectives
After completing this lesson, the participant will be able to:
• Understand the difference between logical and physical stocks in kanban
Unit 4

Replenishment Strategies

Unit Overview

Hint: Replenishment strategies are possible with or without requirements planning. The following tables contain an overview of some basic characteristics.

* MRP stops running when it comes to components that are not to be planned with MRP.

Lesson: Replenishment Strategies for Kanban without MRP

Lesson Objectives
After completing this lesson, the participant will be able to:

• Make the necessary settings for kanban replenishment strategies without MRP in the ECC system.

Lesson: Replenishment Strategies for Kanban with MRP

Lesson Objectives
After completing this lesson, the participant will be able to:

• Make the necessary settings for kanban replenishment strategies with MRP in the ECC system.
Unit 5
Kanban Calculation

Unit Overview
This unit shows how to parameterize and carry out kanban calculations to predict reasonably-sized control cycles.

Lesson: Calculating the Kanban Statistics

Lesson Objectives
After completing this lesson, the participant will be able to:

• Calculate the number of kanbans and the quantity per kanban on the basis of the requirements situation
Unit 6
Special Procedures

Unit Overview
In this unit you will be informed about several very different kanban usages to gain an overview of the wide range of kanban applications. Due to the high degree of specialization the entire chapter is more or less optional.

Hint: Note that in standard trainings, usually the trainer has to be selective with the topics due to time schedule reasons. Therefore normally only content that is really required by participants is covered in detail. After having received an overview you should be able to decide with your trainer which processes to cover in detail.

Lesson: Cross-plant KANBAN
Lesson Objectives
After completing this lesson, the participant will be able to:
• Use the special scenario of cross-plant kanban

Lesson: Kanban to Cost Center
Lesson Objectives
After completing this lesson, the participant will be able to:
• Post the costs for a kanban material to a cost center

Lesson: KANBAN with SD Delivery
Lesson Objectives
After completing this lesson, the participant will be able to:
• Describe the kanban processing with SD delivery
Lesson: Separating Kanban Activities

Lesson Objectives
After completing this lesson, the participant will be able to:
• Separate the kanban status change and the system reaction.

Lesson: Definition of Status Sequences

Lesson Objectives
After completing this lesson, the participant will be able to:
• Understand and define status sequences

Lesson: Quantity Signal

Lesson Objectives
After completing this lesson, the participant will be able to:
• Use the quantity signal

Lesson: Procedures for Triggering Replenishment

Lesson Objectives
After completing this lesson, the participant will be able to:
• Use one-card kanban for stock reduction

Lesson: Event-Driven KANBAN

Lesson Objectives
After completing this lesson, the participant will be able to:
• Understand event-driven kanban

Lesson: Internet Kanban with SAP-ECC

Lesson Objectives
After completing this lesson, the participant will be able to:
• Use Internet kanban with SAP ECC
Lesson: Internet Kanban Using SAP-SCM-SNC

Lesson Objectives
After completing this lesson, the participant will be able to:

• Understand Internet kanban using SAP-SNC

Lesson: Kanban with Heijunka Requirements Smoothing

Lesson Objectives
After completing this lesson, the participant will be able to:

• Evaluate the Heijunka principle in the kanban environment
Unit 7
Error Processing

Unit Overview
This unit deals with kanban error processing - detecting and solving kanban errors.

Lesson: Alerts in the Kanban Process
Lesson Objectives
After completing this lesson, the participant will be able to:
• Analyze and evaluate kanban errors

Lesson: Error Detection and Correction
Lesson Objectives
After completing this lesson, the participant will be able to:
• Correct kanban errors.
Unit 8
Evaluations

Unit Overview
In this unit you will be informed about basic kanban evaluation methods.

Lesson: Options Available for Evaluations

Lesson Objectives
After completing this lesson, the participant will be able to:

• Evaluate current kanban data and historical kanban data