IBP400

SAP IBP, advanced inventory optimization

COURSE OUTLINE

Course Version: 2608
Course Duration:

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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*

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Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

- Application Consultant
- Super / Key / Power User
- Business Analyst
- Business Process Architect
- Business Process Owner/Team Lead/Power User
- System Administrator

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UNIT 1

Introduction to Inventory Planning and Optimization with SAP IBP, Advanced Inventory Optimization

Lesson 1: Understanding Inventory Planning

Lesson Objectives

After completing this lesson, you will be able to:

- Understand key concepts in Inventory Planning.

Lesson 2: Understanding Inventory Optimization

Lesson Objectives

After completing this lesson, you will be able to:

- Define Inventory Optimization.

Lesson 3: Discovering Added value to your Integrated Business Planning through Inventory Optimization

Lesson Objectives

After completing this lesson, you will be able to:

- Analyze inventory management processes and evaluate the potential benefits of implementing an inventory optimization strategy in terms of cost reduction, service level improvements, and overall supply chain efficiency.

Lesson 4: Understanding Key Differentiators of SAP IBP, advanced inventory optimization

Lesson Objectives

After completing this lesson, you will be able to:

- Analyze SAP IBP, advanced inventory optimization's key features and differentiate its capabilities from other inventory management solutions.

Lesson 5: Implementing SAP IBP, advanced inventory optimization

Lesson Objectives

After completing this lesson, you will be able to:

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- Analyze the SAP Integrated Business Planning landscape and evaluate how SAP IBP, advanced inventory optimization integrates with other modules.

Lesson 6: Utilizing Inventory Planning and Optimization

Lesson Objectives

After completing this lesson, you will be able to:

- Successfully use SAP IBP to configure and execute optimization scenarios that determine the inventory levels required to achieve target service levels.

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UNIT 2

SAP IBP, Advanced Inventory Optimization: Configuring and Preparing for Use

Lesson 1: Describing the Business Planning Scenario

Lesson Objectives

After completing this lesson, you will be able to:

- Get started configurating SAP IBP, advanced inventory optimization.

Lesson 2: Options for Handling Uncertainty

Lesson Objectives

After completing this lesson, you will be able to:

- Recognize options for handling uncertainty.

Lesson 3: Examining Attributes and Master Data Types

Lesson Objectives

After completing this lesson, you will be able to:

- Configure a planning area.

Lesson 4: Analyzing Planning Levels and Key Figures

Lesson Objectives

After completing this lesson, you will be able to:

- Process key figures and planning levels.

Lesson 5: Planning Details

Lesson Objectives

After completing this lesson, you will be able to:

- Specify planning details.

Lesson 6: Inventory Global Configuration Parameters

Lesson Objectives

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After completing this lesson, you will be able to:

- Understand how to set up a global parameter for SAP IBP, advanced inventory optimization.

Lesson 7: Inventory Profiles

Lesson Objectives

After completing this lesson, you will be able to:

- Understand how to use the Inventory Profiles app.

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UNIT 3 Creating an Inventory Planning and Optimization Process

Lesson 1: Positioning SAP IBP, Advanced Inventory Optimization in a Sales and Operations Planning Process

Lesson Objectives

After completing this lesson, you will be able to:

- Understand SAP IBP, advanced inventory optimization compared to other SAP IBP modules.

Lesson 2: Running an ABC/XYZ-Segmentation and a Time-Series Analysis

Lesson Objectives

After completing this lesson, you will be able to:

- Understand and apply the ABC/XYZ - segmentation using the time-series analysis results.

Lesson 3: Forecast Error

Lesson Objectives

After completing this lesson, you will be able to:

- Understand forecast error fundamentals.

Lesson 4: Forecast Error Calculation

Lesson Objectives

After completing this lesson, you will be able to:

- Create a forecast error calculation.

Lesson 5: Supply Lead Time Calculation

Lesson Objectives

After completing this lesson, you will be able to:

- Create a supply lead time calculation.

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Lesson 6: Role of an Inventory Planner as Key Player within the Sales and Operations Planning Process

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the role of an inventory planner in an organization.

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UNIT 4 The Power of Multi Echelon

Lesson 1: Introduction to an Overarching SAP Integrated Business Planning Optimizer Methodology

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the SAP holistic approach to inventory optimization.

Lesson 2: Normal Versus Gamma Distribution

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the difference between normal and gamma distributions.

Lesson 3: Demand Propagation

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the premises behind demand propagation.

Lesson 4: Exposure Demand, Supply Variability and Service Variability Calculations

Lesson Objectives

After completing this lesson, you will be able to:

- Understand variability in terms of demand, supply, and service.

Lesson 5: Multi-stage Application via an Example

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the multi-stage inventory optimization capabilities through an example.

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Lesson 6: Other Drivers of Safety Stock: Service Level, Periods Between Replenishment, Lot Size, Delivery Type, and Promotions

Lesson Objectives

After completing this lesson, you will be able to:

- Understand other drivers of safey stock.

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UNIT 5 Validating Inputs

Lesson 1: Holistic Approach

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

- Outline the SAP holistic approach to inventory optimization.

Lesson 2: Identifying the impact of time-varying demand

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

- Identify the impact of time-varying demand.

Lesson 3: Organizing supply timing variability

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

- Organize supply timing variability.

Lesson 4: Identifying the impact of time-varying demand

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

- Understand known versus uncertain demand.

Lesson 5: Planning lead time versus instantaneous replenishment

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

- Plan lead time versus instantaneous replenishment.

Lesson 6: Reviewing the impact of frequent versus infrequent key drivers

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Lesson Objectives

After completing this lesson, you will be able to:

- Review the impact of frequent versus infrequent key drivers.

Lesson 7: Validating the inputs through a dashboard and a planning view

Lesson Objectives

After completing this lesson, you will be able to:

- Validate the inputs through a dashboard and a planning view.

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UNIT 6 Running an Inventory Optimization Operator

Lesson 1: Planning Operators

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the planning operators.

Lesson 2: Determine the Multi-Stage Networks

Lesson Objectives

After completing this lesson, you will be able to:

- Identify interrelated networks in your supply chain.

Lesson 3: Global (Multi-stage) Inventory Optimization

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the SAP Integrated Business Planning logic for multi-stage inventory optimization.

Lesson 4: Safety Stock Limitations

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the usage of minimum and maximum limitations.

Lesson 5: Calculate Predicted Service Levels

Lesson Objectives

After completing this lesson, you will be able to:

- Understand how to predict service levels.

Lesson 6: Calculate Target Inventory Components

Lesson Objectives

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After completing this lesson, you will be able to:

- Understand the usage of the target inventory components calculation.

Lesson 7: Decomposed (Single-stage) Inventory Optimization

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the usage of the decomposed (single-stage) inventory optimization algorithm.

Lesson 8: Diagnosing System Issues

Lesson Objectives

After completing this lesson, you will be able to:

- Understand how to troubleshoot business user logs.

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UNIT 7 Analyzing the Results of an Inventory Optimization Run

Lesson 1: Inventory Plan Review

Lesson Objectives

After completing this lesson, you will be able to:

- Understand how to review an inventory plan.

Lesson 2: Supply Chain Network App

Lesson Objectives

After completing this lesson, you will be able to:

- Use cases for supply chain network visualization.

Lesson 3: Inventory Analysis Features

Lesson Objectives

After completing this lesson, you will be able to:

- Understand how to use the Inventory Analysis app.

Lesson 4: Applications Jobs App

Lesson Objectives

After completing this lesson, you will be able to:

- Understand special application job settings related to inventory optimization.

Lesson 5: Planning Results

Lesson Objectives

After completing this lesson, you will be able to:

- Understand high level and detailed results.

Lesson 6: Scenario Planning

Lesson Objectives

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After completing this lesson, you will be able to:

- Understand the inputs for possible scenarios and simulations.

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UNIT 8 Finalizing the Inventory Plan

Lesson 1: Network Capital Analysis and Scenario Management

Lesson Objectives

After completing this lesson, you will be able to:

- Analyze the effect of holding cost rate on multi-stage inventory.

Lesson 2: Finalizing the Inventory Plan

Lesson Objectives

After completing this lesson, you will be able to:

- Explain how to finalize the inventory planning and optimization process.

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