COURSE OUTLINE

Course Version: 15
Course Duration: 5 Day(s)
© 2017 SAP SE or an SAP affiliate company. 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 or an SAP affiliate company.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. Please see http://global12.sap.com/corporate-en/legal/copyright/index.epx for additional trademark information and notices.

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

National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP SE or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP SE or SAP affiliate company 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.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, which speak only as of their dates, and they should not be relied upon in making purchasing decisions.
Typographic Conventions

American English is the standard used in this handbook. The following typographic conventions are also used.

<table>
<thead>
<tr>
<th>Type</th>
<th>Example text</th>
</tr>
</thead>
<tbody>
<tr>
<td>This information is displayed in the instructor’s presentation</td>
<td></td>
</tr>
<tr>
<td>Demonstration</td>
<td></td>
</tr>
<tr>
<td>Procedure</td>
<td></td>
</tr>
<tr>
<td>Warning or Caution</td>
<td></td>
</tr>
<tr>
<td>Hint</td>
<td></td>
</tr>
<tr>
<td>Related or Additional Information</td>
<td></td>
</tr>
<tr>
<td>Facilitated Discussion</td>
<td></td>
</tr>
<tr>
<td>User interface control</td>
<td>Example text</td>
</tr>
<tr>
<td>Window title</td>
<td>Example text</td>
</tr>
</tbody>
</table>
## Course Overview

1. **Unit 1: Data Acquisition with SAP BW Powered by SAP HANA**
   - Lesson: Getting Started with the Course Landscape
   - Lesson: Explaining the Strategy for SAP BW Powered by SAP HANA
   - Lesson: Describing the New SAP BW Features that Affect Data Acquisition
   - Lesson: Explaining Data Provisioning into SAP HANA
   - Lesson: Using Data Provisioning into SAP HANA via Smart Data Integration (SDI)
   - Lesson: Explaining Data Provisioning into SAP HANA via Flat Files

2. **Unit 2: Data Acquisition with the SAP HANA Source System**
   - Lesson: Explaining Enterprise Information Management (EIM) and Integration into SAP BW
   - Lesson: Setting Up the Streaming Data Flow with SDI
   - Lesson: Executing the Upsert
   - Lesson: Maintaining the Streaming Process Chain
   - Lesson: Streaming Data with Upsert
   - Lesson: Streaming Data with Insert

3. **Unit 3: Data Acquisition with Operational Data Provisioning**
   - Lesson: Describing Data Acquisition with Operational Data Provisioning (ODP)
   - Lesson: Explaining Source Systems
   - Lesson: Managing DataSources in SAP ERP Central Component (ECC) and SAP BW
   - Lesson: Managing the ODP Data Transfer Processes (DTPs)
   - Lesson: Analyzing the Operational Delta Queue (ODQ) for ODP - SAP
   - Lesson: Modeling ODP Generic DataSources on Views, Function Modules, and ABAP Queries
   - Lesson: Replicating Data with SAP Landscape Transformation (ODP-SLT)
   - Lesson: Streaming Data in Real Time with ODP - SLT
   - Lesson: Acquiring Data in Real Time with ODP - SLT and Realtime Data Acquisition (RDA)
   - Lesson: Extracting from ODP - SAP HANA Information Views
   - Lesson: Discussing BW - ODP Data Marts
   - Lesson: Describing ABAP CDS View - ODP Source Systems
   - Lesson: Comparing SAP BW Data Acquisition Options
<table>
<thead>
<tr>
<th>Unit 4: Delta Data Flow Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>9</td>
</tr>
<tr>
<td>9</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit 5: Performance Optimization and Management of Data Flow Components</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>11</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>12</td>
</tr>
<tr>
<td>12</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Unit 6: Additional Data Acquisition and Distribution Techniques</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
</tr>
<tr>
<td>13</td>
</tr>
<tr>
<td>13</td>
</tr>
<tr>
<td>13</td>
</tr>
<tr>
<td>13</td>
</tr>
<tr>
<td>13</td>
</tr>
<tr>
<td>14</td>
</tr>
</tbody>
</table>
TARGET AUDIENCE
This course is intended for the following audiences:

- Data Manager
- Systems Architect
- Project Manager
- Project Stakeholder
- Training Manager
- Application Consultant
- Development Consultant
- Technology Consultant
- Support Consultant
- Data Consultant
- Developer IT Administrator IT Support
- Database Administrator
- Development Consultant
- Solution Architect
- System Administrator
- Technology Consultant
- Trainer
Lesson 1: Getting Started with the Course Landscape

Lesson Objectives
After completing this lesson, you will be able to:
• Get Started with the Course Landscape

Lesson 2: Explaining the Strategy for SAP BW Powered by SAP HANA

Lesson Objectives
After completing this lesson, you will be able to:
• Explain the Strategy for SAP BW on SAP HANA

Lesson 3: Describing the New SAP BW Features that Affect Data Acquisition

Lesson Objectives
After completing this lesson, you will be able to:
• Review SAP BW Terms
• Describe the New Features for SAP BW on SAP HANA that Affect Data Acquisition

Lesson 4: Explaining Data Provisioning into SAP HANA

Lesson Objectives
After completing this lesson, you will be able to:
• Explain How to Deliver Data into the SAP HANA database
• SAP Direct Extractor Connection Overview
• Describe SAP Landscape Transformation Replication

Lesson 5: Using Data Provisioning into SAP HANA via Smart Data Integration (SDI)

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

- Describe SDI Data Loads into SAP HANA

**Lesson 6: Explaining Data Provisioning into SAP HANA via Flat Files**

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

- Load SAP HANA with the Flat File Bulk Loader
- Load SAP HANA with the Flat File Wizard
Lesson 1: Explaining Enterprise Information Management (EIM) and Integration into SAP BW

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

- Discuss the Features and Components of EIM

Lesson 2: Setting Up the Streaming Data Flow with SDI

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

- Stream Data With SDI: Setting Up the Data Flow

Lesson 3: Executing the Upsert

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

- Stream Data With SDI: Executing the Upsert

Lesson 4: Maintaining the Streaming Process Chain

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

- Stream Data With SDI: The Streaming Process Chain

Lesson 5: Streaming Data with Upsert

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

- Stream Data With SDI: Managing the Data with Upsert

Lesson 6: Streaming Data with Insert
Lesson Objectives
After completing this lesson, you will be able to:

- Stream Data With SDI: Managing the Data with Insert
Lesson 1: Describing Data Acquisition with Operational Data Provisioning (ODP)

Lesson Objectives
After completing this lesson, you will be able to:
- Describe the ODP functionality

Lesson 2: Explaining Source Systems

Lesson Objectives
After completing this lesson, you will be able to:
- Connect SAP Source Systems to SAP BW

Lesson 3: Managing DataSources in SAP ERP Central Component (ECC) and SAP BW

Lesson Objectives
After completing this lesson, you will be able to:
- Manage ODP DataSources
- Activate SAP ECC DataSources

Lesson 4: Managing the ODP Data Transfer Processes (DTPs)

Lesson Objectives
After completing this lesson, you will be able to:
- Manage ODP DTPs

Lesson 5: Analyzing the Operational Delta Queue (ODQ) for ODP - SAP

Lesson Objectives
After completing this lesson, you will be able to:
- Analyze ODP/ODQ
Lesson 6: Modeling ODP Generic DataSources on Views, Function Modules, and ABAP Queries

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

- Create generic DataSources

Lesson 7: Replicating Data with SAP Landscape Transformation (ODP-SLT)

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

- Replicate Data with SAP Landscape Transformation

Lesson 8: Streaming Data in Real Time with ODP - SLT

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

- Stream Data in Real Time with ODP - SLT

Lesson 9: Acquiring Data in Real Time with ODP - SLT and Realtime Data Acquisition (RDA)

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

- Acquire data in real time (RDA) with SAP Landscape Transformation

Lesson 10: Extracting from ODP - SAP HANA Information Views

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

- Describe Extractions from ODP - SAP HANA Information Views

Lesson 11: Discussing BW - ODP Data Marts

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

- Describe BW - ODP Data Marts

Lesson 12: Describing ABAP CDS View - ODP Source Systems

Lesson Objectives

© Copyright. All rights reserved.
After completing this lesson, you will be able to:

- Describe ABAP CDS Views - ODP Source Systems

**Lesson 13: Comparing SAP BW Data Acquisition Options**

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

- Compare SAP BW Data Acquisition Options
Lesson 1: Describing Delta Management

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

- Extract data to SAP BW using delta management

Lesson 2: Explaining Terms and Basic Processes of Delta Enabled DataSources

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

- Examine support of delta process of DataSources
- Explain Update Mode
- Explain the delta process

Lesson 3: Configuring the Logistics Data Extraction (LO Cockpit)

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

- Extract logistics data

Lesson 4: Discussing the New GL Data Extraction

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

- Configure the New GL Data Extraction

Lesson 5: Configuring Generic Delta DataSources

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

- Configure Generic Delta DataSources
Lesson 1: Working with SAP HANA Optimized Transformations
Lesson Objectives
After completing this lesson, you will be able to:

- Describe how SAP BW transformation rules can be SAP HANA-optimized

Lesson 2: Positioning InfoSources
Lesson Objectives
After completing this lesson, you will be able to:

- Position InfoSources

Lesson 3: Debugging DTPs
Lesson Objectives
After completing this lesson, you will be able to:

- Debug with the DTP

Lesson 4: Debugging the ODP
Lesson Objectives
After completing this lesson, you will be able to:

- Debug the ODP

Lesson 5: Debugging an SAP ECC DataSource
Lesson Objectives
After completing this lesson, you will be able to:

- Debug an SAP ECC DataSource

Lesson 6: Describing the SAP ECC Plug In
Lesson Objectives
After completing this lesson, you will be able to:

- Define the role of the SAP BW Service API in data acquisition, extraction, and staging

**Lesson 7: Work with the Application Component Hierarchy**

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

- The Application Component Hierarchy

**Lesson 8: Appending BI Content DataSources**

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

- Append BI Content DataSources

**Lesson 9: Generating Data Flows From Flat Files**

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

- Generate a Data Flow Automatically
Lesson 1: Describing SAP Data Services for SAP HANA

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

- Describing SAP Data Services for SAP HANA

Lesson 2: Positioning DB Connect

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

- Define a DB Connect DataSource

Lesson 3: Acquiring Data Using an XML Based Web Service

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

- Acquire data using Web Services

Lesson 4: Loading Hierarchies from SAP ECC

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

- Load a hierarchy from SAP ECC using a Delivered DataSource

Lesson 5: Loading Hierarchies From Flat Files

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

- Load a Flat File Hierarchy

Lesson 6: Implementing OpenHub Destinations

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

- Distribute SAP BW data using OpenHub destinations

**Lesson 7: Exporting Hierarchies with OpenHub**

**Lesson Objectives**

After completing this lesson, you will be able to:

- Export a hierarchy with OpenHub