COURSE OUTLINE

Course Version: 10
Course Duration: 5 Day(s)20
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Typographic Conventions

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

<table>
<thead>
<tr>
<th>This information is displayed in the instructor’s presentation</th>
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<tbody>
<tr>
<td>Demonstration</td>
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Example text

Example text
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<thead>
<tr>
<th>Unit</th>
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<tbody>
<tr>
<td>1</td>
<td>SAP Business Warehouse (BW), Business Warehouse Accelerator (BWA), and SAP HANA (High-performance Analytic Appliance) Overview</td>
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<td>1</td>
<td>Lesson: Identifying the Components and Architecture of SAP BW, BWA, and SAP HANA</td>
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<td>InfoProvider Administration</td>
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TARGET AUDIENCE
This course is intended for the following audiences:

- Technology Consultant
- Database Administrator
- Solution Architect
Lesson 1: Identifying the Components and Architecture of SAP BW, BWA, and SAP HANA

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

• Identify the components and architecture of SAP BW, BWA, and SAP HANA
Lesson 1: Managing InfoCubes
Lesson Objectives
After completing this lesson, you will be able to:

- Manage InfoCubes

Lesson 2: Managing DataStore Objects
Lesson Objectives
After completing this lesson, you will be able to:

- Manage DataStore objects

Lesson 3: Managing MultiProviders
Lesson Objectives
After completing this lesson, you will be able to:

- Manage MultiProviders

Lesson 4: Managing HybridProviders
Lesson Objectives
After completing this lesson, you will be able to:

- Manage HybridProviders

Lesson 5: Managing Semantically Partitioned Objects (SPOs)
Lesson Objectives
After completing this lesson, you will be able to:

- Manage Semantically Partitioned Objects

Lesson 6: Managing TransientProviders
Lesson Objectives
After completing this lesson, you will be able to:

- Manage TransientProviders

**Lesson 7: Managing Analytical Indexes**

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

- Manage Analytical Indexes

**Lesson 8: Managing VirtualProviders**

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

- Manage VirtualProviders

**Lesson 9: Managing Real-Time Providers**

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

- Create a real-time InfoCube to store planning data

**Lesson 10: Creating a DataStore Object for Direct Update**

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

- Create a DataStore object for direct update
Lesson 1: Designing Process Chains
Lesson Objectives
After completing this lesson, you will be able to:
• Design process chains

Lesson 2: Maintaining Process Chains
Lesson Objectives
After completing this lesson, you will be able to:
• Maintain process chains

Lesson 3: Monitoring Process Chains
Lesson Objectives
After completing this lesson, you will be able to:
• Monitor process chains
Lesson 1: Starting the Data Load Cycle

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

- Start the data extraction and loading process

Lesson 2: Examining the Technical Aspects of Data Acquisition

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

- Describe the data flow and loading process

Lesson 3: Loading Master Data

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

- Load master data

Lesson 4: Using Transformations

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

- Convert source data for loading using transformations

Lesson 5: Monitoring Data Load

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

- Monitor data loads
Lesson 1: Performing Traces with BW Trace Tool

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

- Perform traces with the BW Trace Tool
Lesson 1: Archiving Data in Information Lifecycle Management

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

- Archive Data with Classic Archiving

Lesson 2: Querying Archived Data Using BW Near-Line Storage

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

- Query archived data using BW near-line storage
Lesson 1: Describing the BW Transport System Landscape
Lesson Objectives
After completing this lesson, you will be able to:
- Describe BW Transport structures in a system landscape

Lesson 2: Determining Object Versions and Metadata
Lesson Objectives
After completing this lesson, you will be able to:
- Determine metadata object versions

Lesson 3: Managing BW Transports
Lesson Objectives
After completing this lesson, you will be able to:
- Manage BW transports

Lesson 4: Transporting BEx Objects
Lesson Objectives
After completing this lesson, you will be able to:
- Transport BEx objects

Lesson 5: Transporting Roles and Workbooks
Lesson Objectives
After completing this lesson, you will be able to:
- Describe transport roles and workbooks

Lesson 6: Troubleshooting Transport Strategies
Lesson Objectives
After completing this lesson, you will be able to:

- Identify various transport problems and their solutions
Lesson 1: Determining Relational Database Management System (DBMS) Indexes

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

● Increase InfoCube read performance using B-tree indexes

Lesson 2: Indexing InfoProviders

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

● Determine InfoCube table indexes
Lesson 1: Optimizing Performance for DataStore Objects
Lesson Objectives
After completing this lesson, you will be able to:

- Read from a DataStore object

Lesson 2: Optimizing Performance for InfoCubes
Lesson Objectives
After completing this lesson, you will be able to:

- Optimize performance for InfoCubes

Lesson 3: Optimizing Performance Using Semantically Partitioned Objects
Lesson Objectives
After completing this lesson, you will be able to:

- Create a Semantically Partitioned Object to optimize performance

Lesson 4: Optimizing Performance Using Analytical Indexes
Lesson Objectives
After completing this lesson, you will be able to:

- Optimize performance using analytic indexes

Lesson 5: Optimizing Performance Using TransientProviders
Lesson Objectives
After completing this lesson, you will be able to:

- Optimize performance by querying source system data using a TransientProvider

Lesson 6: Improving Query Performance with Aggregates
Lesson Objectives
After completing this lesson, you will be able to:

- Improve query performance using aggregates

Lesson 7: Optimizing Performance Using MultiProviders
Lesson Objectives
After completing this lesson, you will be able to:

- Optimize performance using MultiProviders

Lesson 8: Optimizing Performance Using HybridProviders
Lesson Objectives
After completing this lesson, you will be able to:

- Optimize Performance Using HybridProviders
Lesson 1: Configuring Data Acquisition Parallel Processing

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

• Configure data acquisition and parallel processing

Lesson 2: Improving Data Acquisition Performance

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

• List methods for improving data acquisition performance

Lesson 3: Loading and Activating DataStore Objects

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

• Load DataStore objects
Lesson 1: Performing Table Partitioning

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

- Perform table partitioning
Lesson 1: Designing Queries for Optimal Performance

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

- Design queries for optimal performance

Lesson 2: Optimizing Query Performance Using the Online Analytical Processing (OLAP) Cache

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

- Optimize query performance using the OLAP cache

Lesson 3: Maintaining Query Read Mode Properties

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

- Maintain Read mode in query properties
UNIT 13
Performance Management with BW Statistics

Lesson 1: Optimizing Performance with BW Statistics
Lesson Objectives
After completing this lesson, you will be able to:

- Optimize performance with BW statistics

Lesson 2: Implementing Technical Content for BW Statistics
Lesson Objectives
After completing this lesson, you will be able to:

- Implement technical content for BW statistics

Lesson 3: Administering and Analyzing BW Statistics Data
Lesson Objectives
After completing this lesson, you will be able to:

- Maintain BW statistics settings

Lesson 4: Monitoring with BW Administration Cockpit
Lesson Objectives
After completing this lesson, you will be able to:

- Monitor performance with BW Administration Cockpit
UNIT 14
Performance Management with BWA

Lesson 1: Optimizing Performance with BWA

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

● Optimize query performance with BWA

Lesson 2: Analyzing BWA Architecture

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

● List the components and processes of BWA

Lesson 3: Increasing Query Read Performance Using BWA Indexes

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

● Increase query read performance using BWA indexes

Lesson 4: Monitoring BWA

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

● Monitor the BWA environment using the BWA monitor