

HA200

SAP HANA 2.0 SPS07 - Installation and Administration

COURSE OUTLINE

Course Version: 19

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	<i>Example text</i>
Window title	<i>Example text</i>

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Course Overview

TARGET AUDIENCE

This course is intended for the following audiences:

Lesson 1: Identifying the Need for SAP HANA

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the need for SAP HANA.

Lesson 2: Illustrating the Need for In-Memory Technology

Lesson Objectives

After completing this lesson, you will be able to:

- Explain SAP HANA as an in-memory application platform.

Lesson 1: Performing SAP HANA Sizing

Lesson Objectives

After completing this lesson, you will be able to:

- Perform SAP HANA sizing.

Lesson 2: Identifying Supported SAP HANA Hardware

Lesson Objectives

After completing this lesson, you will be able to:

- Identify SAP HANA deployment options.

Lesson 3: Identifying the Linux Operating System Requirements

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the Linux operating system requirements for SAP HANA.

Lesson 4: Outlining how to use the Hardware Measurement Tool

Lesson Objectives

After completing this lesson, you will be able to:

- Illustrate how to use the SAP HANA hardware and cloud measurement tool.

Lesson 1: Installing SAP HANA 2.0

Lesson Objectives

After completing this lesson, you will be able to:

- Use the SAP HANA lifecycle management tools to install SAP HANA.

Lesson 2: Describing Advanced Installation Options

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the advanced installation options.

Lesson 3: Illustrating Deployment Options

Lesson Objectives

After completing this lesson, you will be able to:

- Identify deployment options for SAP HANA.

Lesson 1: Illustrating SAP HANA Administration Tools

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the available SAP HANA administration tools.

Lesson 2: Installing SAP HANA Cockpit

Lesson Objectives

After completing this lesson, you will be able to:

- Install SAP HANA Cockpit.

Lesson 3: Describing the SAP HANA Cockpit Architecture

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the SAP HANA cockpit architecture.

Lesson 4: Configuring SAP HANA Cockpit

Lesson Objectives

After completing this lesson, you will be able to:

- Configure SAP HANA cockpit.

Lesson 5: Updating SAP HANA Cockpit

Lesson Objectives

After completing this lesson, you will be able to:

- Update SAP HANA cockpit.

Lesson 1: Illustrating Post-Installation Steps

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the post-installation steps after an SAP HANA installation.

Lesson 2: Updating SAP HANA

Lesson Objectives

After completing this lesson, you will be able to:

- Update an SAP HANA database using the HDBLCM tool.

Lesson 3: Illustrating the Resident HDBLCM

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the resident HDBLCM functions.

Lesson 4: Creating, Renaming, and Deleting a Tenant Database

Lesson Objectives

After completing this lesson, you will be able to:

- Demonstrate the creation, renaming, and deletion of tenants within a multitenant database architecture.

Lesson 5: Explaining the Revision Strategy of SAP HANA

Lesson Objectives

After completing this lesson, you will be able to:

- Understand the SAP HANA revision and SAP HANA cockpit strategy, including the usefulness of the capture and replay functionality.

Lesson 6: Using the SAP HANA HDBSQL Command-Line Tool

Lesson Objectives

After completing this lesson, you will be able to:

- Use the HDBSQL command-line tool and the hdbuserstore tool.

Lesson 1: Using Database Explorer

Lesson Objectives

After completing this lesson, you will be able to:

- Use the Database Explorer to work with SAP HANA databases.

Lesson 2: Importing and Exporting Database Content

Lesson Objectives

After completing this lesson, you will be able to:

- Import and export the SAP HANA data.

Lesson 3: Displaying Table Information

Lesson Objectives

After completing this lesson, you will be able to:

- Display the table definition and table content.

Lesson 4: Using the SQL Console

Lesson Objectives

After completing this lesson, you will be able to:

- Use the SQL console.

Lesson 5: Using the SAP HANA Statement Library

Lesson Objectives

After completing this lesson, you will be able to:

- Import the SAP HANA Statement Library and execute the SQL scripts.

Lesson 1: Locating Databases in SAP HANA Cockpit

Lesson Objectives

After completing this lesson, you will be able to:

- Use the Database Directory and Database Management application to locate the SAP HANA database.

Lesson 2: Checking the SAP HANA Services

Lesson Objectives

After completing this lesson, you will be able to:

- Check memory and CPU usage of the SAP HANA services.

Lesson 3: Checking the Memory Usage

Lesson Objectives

After completing this lesson, you will be able to:

- Check the SAP HANA system memory usage.

Lesson 4: Checking the SAP HANA Persistence Storage

Lesson Objectives

After completing this lesson, you will be able to:

- Check the SAP HANA persistence storage.

Lesson 5: Checking for SAP HANA Alerts

Lesson Objectives

After completing this lesson, you will be able to:

- Check and configure SAP HANA alerts.

Lesson 6: Checking the SQL Statements

Lesson Objectives

After completing this lesson, you will be able to:

- Find the thread, session, or SQL statement that consume the most resources

Lesson 1: Starting and Stopping SAP HANA

Lesson Objectives

After completing this lesson, you will be able to:

- Use different tools to start and stop SAP HANA.

Lesson 2: Changing Database Configuration Parameters

Lesson Objectives

After completing this lesson, you will be able to:

- Configure the SAP HANA database.

Lesson 3: Describing Further Configuration Functions

Lesson Objectives

After completing this lesson, you will be able to:

- Configure the restricted features and blocked parameters.

Lesson 4: Describing the Concept of Delta Merge

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the delta merge process.

Lesson 5: Working with SAP HANA Traces

Lesson Objectives

After completing this lesson, you will be able to:

- Check and configure SAP HANA traces.

Lesson 1: Describing Backup and Recovery

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the backup and recovery process.

Lesson 2: Performing Data Backups

Lesson Objectives

After completing this lesson, you will be able to:

- Perform a data backup.

Lesson 3: Scheduling Data Backups

Lesson Objectives

After completing this lesson, you will be able to:

- Configure Data Backups.

Lesson 4: Configuring Log Backups

Lesson Objectives

After completing this lesson, you will be able to:

- Configure a log area backup.

Lesson 5: Performing Database Recovery

Lesson Objectives

After completing this lesson, you will be able to:

- Recover a database.

Lesson 6: Describing Additional Backup Topics

Lesson Objectives

After completing this lesson, you will be able to:

- Describe advanced backup topics.

Lesson 7: Illustrating Advanced Backup and Recovery Techniques

Lesson Objectives

After completing this lesson, you will be able to:

- Identify advanced backup and recovery techniques.

Lesson 8: Creating a Fallback Snapshot

Lesson Objectives

After completing this lesson, you will be able to:

- Create a fallback snapshot.

Lesson 9: Identifying Database Copy Scenarios

Lesson Objectives

After completing this lesson, you will be able to:

- Identify database copy scenarios.

Lesson 1: Illustrating the SAP HANA Security Functions

Lesson Objectives

After completing this lesson, you will be able to:

- Identify the SAP HANA security functions.

Lesson 2: Describing Encryption

Lesson Objectives

After completing this lesson, you will be able to:

- Describe encryption.

Lesson 3: Setting Up Auditing

Lesson Objectives

After completing this lesson, you will be able to:

- Configure and enable auditing.

Lesson 1: Describing SAP HANA Authentication and Authorization

Lesson Objectives

After completing this lesson, you will be able to:

- Understand user management, including authentication and authorization methods in SAP HANA.

Lesson 2: Describing SAP HANA Privileges and Roles

Lesson Objectives

After completing this lesson, you will be able to:

- Identify and describe the different types of privileges and roles.

Lesson 3: Managing Users

Lesson Objectives

After completing this lesson, you will be able to:

- Describe user management and administration.

Lesson 4: Managing Groups

Lesson Objectives

After completing this lesson, you will be able to:

- Describe the usage of groups.

Lesson 5: Describing Information Sources for Administrators

Lesson Objectives

After completing this lesson, you will be able to:

- Identify information sources for administrators.

Lesson 1: Illustrating SAP ABAP Systems on SAP HANA

Lesson Objectives

After completing this lesson, you will be able to:

- Illustrate SAP ABAP Systems on SAP HANA.