

# Course Schedule 2021

## SAP Skills University Singapore

Solution / Course	Duration	Fee excl 7% GST (SGD)	Start Date	End Date
WSGHAO HANA Administration & Operations (PT)	17 days	11,775	06-Nov-21	15-Jan-22
HA100 SAP HANA 2.0 SPS04 - Introduction	2 days		06-Nov-21	07-Nov-21
HA200 SAP HANA 2.0 SPS04 Installation and Administration	5 days		13-Nov-21	04-Dec-21
HA201 SAP HANA 2.0 SPS04 - High Availability and Disaster Tolerance Administration	3 days		05-Dec-21	12-Dec-21
HA215 SAP HANA 2.0 SPS04 – Using Monitoring and Performance Tools	2 days		18-Dec-21	19-Dec-21
HA240 SAP HANA 2.0 SPS04 - Authorizations, Scenarios & Security Requirements	3 days		26-Dec-21	08-Jan-22
HA250 SAP HANA 2.0 SPS02 - Database Migration using DMO	2 days		09-Jan-21	15-Jan-22
C_HANATEC_15 SAP Certified Technology Associate - SAP HANA 2.0 (SPS03)			NA	NA

Course details are the last updated on 10-May-2021  
For more information, visit <https://training.sap.com/>

## HA100 SAP HANA 2.0 SPS03 - Introduction

### Goals

- This course will enable you to:
  - Understand the key concepts of SAP HANA
  - Work with the various SAP HANA interfaces used by developers and administrators
  - Create a data model using SAP HANA modeling tools
  - Acquire and enrich data and load to SAP HANA
  - Build a report that runs on an SAP HANA data model
  - Get started with the application development environment

### Audience

- Application Consultant
- Change Manager
- Business Analyst
- Application Developer
- BI / BW consultant
- Data Scientist
- Database Administrator
- SAP HANA Project Manager
- SAP HANA Support Staff

# HA100 SAP HANA 2.0 SPS03 - Introduction (Contd...)

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## Prerequisites

### Essential

- None

### Recommended

- Basic understanding of business IT

### Course based on software release

- SAP HANA 2.0 SPS04

## Content

- Describing SAP HANA
  - Understanding the Need for a Modern Digital Platform
  - Describing how SAP HANA Powers a Digital Platform
- Architecture of SAP HANA
  - Outlining Components of SAP HANA
  - Working with SAP HANA interfaces
  - Understanding Key Features of SAP HANA Database
  - Describing High Availability
- Analytical Processing with SAP HANA
  - Understanding Core Modeling with SAP HANA
  - Advanced Modeling with SAP HANA
- Data Management with SAP HANA
  - Data Tiering
  - Describing Data Acquisition Tools
- Developing and Running Applications on SAP HANA
  - Running SAP Enterprise Suites on SAP HANA
  - Connecting SAP Business Intelligence Tools to SAP HANA
  - Outlining SAP Business Warehouse on SAP HANA
  - Developing SQL Data Warehouses with SAP HANA
  - Building Native HANA Applications

## Notes

- This course covers SAP HANA (the platform) and not SAP S/4HANA (the application suite). But a basic understanding of the platform is essential for anyone who works with SAP S/4HANA and so this course is highly recommended for SAP S/4HANA consultants.

# HA200 SAP HANA 2.0 SPS04 - Installation and Administration

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## Goals

- This course will prepare you to:
  - Install and update an SAP HANA 2.0 SPS04 database.
  - Installation and configuration of SAP HANA cockpit 2.0 SP10.
  - Perform the SAP HANA system administration tasks using SAP HANA cockpit 2.0 SP10 in a multitenant database environment.
  - Start and stop, change the configuration, backup and troubleshoot an SAP HANA 2.0 SPS04 database.
  - Backup and recover a multitenant SAP HANA 2.0 SPS04 database.

# HA200 SAP HANA 2.0 SPS04 - Installation and Administration (Contd...)

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## Audience

- Database Administrator
- Help Desk/CoE Support
- System Administrator
- Technology Consultant

## Prerequisites

### Essential

- Ha100

### Recommended

- Some experience with the Linux operating system
- Some experience in database administration

## Course based on software release

- SAP HANA 2.0 SPS04

## Content

- This course is the best starting point to learn about SAP HANA installation, update, configuration and system administration.
- The course is independent from the SAP NetWeaver administration world, as it teaches how to perform system administration on the SAP HANA platform. The system administration tools used are native to the SAP HANA platform.
- Throughout the course, you will learn about the following SAP HANA tools for installation, update, configuration and system administration.
  - SAP HANA database lifecycle manager (HDBLCM)
  - SAP HANA cockpit 2.0 SP10
  - SAP HANA HDBSQL command line
- At the end, you will be able to perform all the required daily system administration tasks on the SAP HANA database platform.
- Contents:
  - SAP HANA introduction
  - Installation sizing and OS preparations
  - SAP HANA installation and upgrade of a multitenant database
  - SAP HANA architecture and deployment options
  - SAP HANA cockpit 2.0 installation and configuration
  - SAP HANA Administration tools
  - Post installation steps
  - Database administration tasks using SAP HANA cockpit 2.0
  - Backup and recovery using SAP HANA cockpit 2.0
  - SAP HANA Security
  - User and authorizations

## Notes

- In case you need to "deep-dive" on specific subjects, this course can be coherently combined with the other courses in the SAP HANA Curriculum, for example HA201 for High availability and Disaster Tolerance Administration, HA215 Using Monitoring and Performance Tools, HA240 Authorizations, Scenarios & Security Requirements and HA250 Database Migration using DMO.

# HA201 SAP HANA 2.0 SPS04 - High Availability and Disaster Tolerance Administration

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## Goals

- This course will prepare you to:
  - Install and configure a high available multi host SAP HANA scale- out database system.
  - Understand what happens to SAP HANA scale-out system during a failure of a slave or master node.
  - Install and configure SAP HANA system replication with the classic setup and the new Active/Active setup.
  - Perform tenant administration tasks like create, start/stop, delete, backup and recovery of a tenant in a multitenant SAP HANA 2.0 database.
  - Understand the SAP HANA python scripts provided by SAP.

## Audience

- Database Administrator
- Help Desk/CoE Support
- System Administrator
- Technology Consultant

## Prerequisites

### Essential

- Ha100
- Ha200

### Recommended

- Some experience with the Linux operating system
- Some experience in database administration

## Course based on software release

- SAP HANA 2.0 SPS04

## Content

- This course is the best starting point to learn about SAP HANA high availability, disaster tolerance and multitenant capabilities in larger SAP HANA landscapes.
- The course is independent from the SAP NetWeaver administration world, as it teaches how to perform system administration on the SAP HANA platform. The system administration tools used are native to the SAP HANA platform.
- Throughout the course, you will learn about the following advanced SAP HANA administration topics.
  - SAP HANA scale-out and host auto failover.
  - SAP HANA multitenant features in an SAP HANA scale-out database system.
  - SAP HANA system replication between datacenters
  - SAP HANA Python scripts provided by SAP
- Contents:
  - SAP HANA High Availability and Disaster Tolerance
  - SAP HANA multi host scale-out and host auto failover
  - SAP HANA storage and system replication
  - SAP HANA system replication options
  - SAP HANA multitenant features
  - SAP HANA python scripts provided by SAP

## Notes

- In case you need to "deep-dive" on specific subjects, this course can be coherently combined with the other courses in the SAP HANA Curriculum, for example HA215 Using Monitoring and Performance Tools, HA240 Authorizations, Scenarios & Security Requirements and HA250 Database Migration using DMO.

# HA215 SAP HANA 2.0 SPS03 – Using Monitoring and Performance Tools

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## Goals

- This course will prepare you to:
  - Use the SAP HANA cockpit to perform emergency trouble shooting, the SAP HANA traces to investigate for costly statements and to setup SAP HANA Workload Management and SAP HANA Capture and Replay tools.

## Audience

- Database Administrator
- Help Desk/CoE Support
- System Administrator
- Technology Consultant

## Prerequisites

### Essential

- HA200 - SAP HANA 2.0 SPS05 - Installation and Administration
- Basic experience with the Linux operating system

### Recommended

- HA100 - SAP HANA 2.0 SPS05 – Introduction
- HA150 - SAP HANA 2.0 SPS05 - SQL and SQLScript for SAP HANA

## Course based on software release

- SAP HANA 2.0 SPS05

## Content

- This course is the best starting point to learn about the SAP HANA Monitoring and Performance Tools.
- Contents:
- Emergency Analysis and Troubleshooting using SAP HANA cockpit 2.0 SP12
  - Handling System Offline Situations
  - Handling System Hanging but Reachable Situations
  - Analyzing a Suddenly Slow System
- Structural System Performance Root Cause Analysis
  - Analyzing Memory Issues
  - Analyzing CPU Issues
  - Analyzing Expensive Statements Issues
  - Analyzing Disk and I/O Issues
- Proactive Monitoring and Performance Safeguarding
  - Configuring SAP HANA Alerting Framework
  - Setting up SAP HANA Workload Management
  - Using SAP HANA Capture and Replay

## Notes

- In case you need to "deep-dive" on specific subjects, this course can be coherently combined with the other courses in the SAP HANA Curriculum, for example HA201 for High availability and Disaster Tolerance, HA240 for SAP HANA Security and HA250 for database migration.

# HA240 SAP HANA 2.0 SPS04 - Authorizations, Scenarios & Security Requirements

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## Goals

- This course will prepare you to:
  - work on authorizations and security on the SAP HANA Platform.

## Audience

- Security Administrator
- System Administrator

## Prerequisites

### Essential

- Basic understanding of SAP HANA functionalities and scenarios
- Basic understanding of SQL language

### Recommended

- Ha100

### Course based on software release

- SAP HANA 2.0 SPS04

## Content

- The aim of this course is to prepare the student to work on authorizations and security on the SAP HANA Platform. The course initially covers system level security including Network and Communication security and Data Storage encryption, then it focuses on user management, authentication, authorizations, and auditing. Specific exercises are proposed, about LDAP Group authorization, User Groups, Authorization trace.
- Concepts of application development are also introduced, since they are required to properly work on authorization roles in SAP HANA.

# HA250 SAP HANA 2.0 SPS02 - Database Migration using DMO

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## Goals

- This course will prepare you to:
  - The Software Update Manager (SUM) is the tool for system maintenance of SAP systems based on SAP NetWeaver. Therefore, the objective of this course is to enable students to use the option of SUM, the one-step migration procedure (DMO), to migrate to SAP HANA autonomously.
  - The course covers the most important tasks for an SAP HANA administrator for the combined update and migration of an SAP system to the SAP HANA database. Furthermore, it provides details about the preparation of the procedure and technical details of the process.

## Audience

- Support Consultant
- System Administrator
- Technology Consultant

## Prerequisites

### Essential

- None

### Recommended

- Experience with SAP software maintenance using Software Update Manager (SUM)
- TADM70 SAP System: Operating System and Database Migration

## Course based on software release

- SAP HANA 2.0 SPS05

## Content

- Getting Familiar with Database Migration Option (DMO)
  - Listing DMO Benefits
  - Explaining DMO Basics
- Preparing Database Migration Option (DMO) Procedure
  - Ensuring DMO Prerequisites are Fulfilled on the Host
  - Configuring SAP Host Agent for DMO
  - Examining the SUM UI
- Configuration of Database Migration Option (DMO) Procedure
  - Performing the DMO Run
  - Listing DMO Procedure Steps
  - Monitoring the Migration
  - Tuning the DMO Downtime
  - Explaining the DMO Release Schedule

## Notes

- This course provides step by step exercises how to prepare and perform this kind of migration. The exercises cover the DMO specific steps.
- After this course the participants are well prepared for a successfully migration to SAP HANA.
- The content of this course HA250 is also contained in course ADM328.

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**THE BEST RUN**

