Courses Listed

Beginner
- HA100 - SAP HANA Introduction

Advanced
- HA300 - SAP HANA 2.0 SPS03 Modeling
- HA301 - SAP HANA 2.0 SPS03 Advanced Modeling

Certification Exam
- C_HANAIMP_15 - SAP Certified Application Associate - SAP HANA 2.0 (SPS03)
### COURSE LISTING

All available schedules in your selection

**HA301  SAP HANA 2.0 SPS03 Advanced Modeling**

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**HA300  SAP HANA 2.0 SPS03 Modeling**

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### HA100  SAP HANA Introduction

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**C_HANAIMP_15  SAP Certified Application Associate - SAP HANA 2.0 (SPS03)**

There are currently no events available for this course. Please feel free to register interest for this course on SAP Training. We will then notify you when a course has been scheduled.
HA301 - SAP HANA 2.0 SPS03 Advanced Modeling

Duration

3 days

Course announcements

• This course provides advanced knowledge and practical experience on several topics that are included in, or connected to, the scope of the Modeler role. Its purpose is to take a step further, beyond the core modeling knowledge from HA300, and to demonstrate how applications powered by SAP HANA can benefit from innovations such as Spatial Data Storage and Processing, Text Search and Analysis, Predictive Analysis and Graph Modeling.
• The course is supported by many demos and exercise, which demonstrate the advanced modeling capabilities in several scenarios. For example, working with classical schemas or HDI containers in XS Advanced, using the SQL console, developing graphical models. Some of the proposed case studies blend together several modeling capabilities, such as text with spatial, or text with graph.
• An introduction to SAP HANA Series Data is also provided.

Goals

• This course will prepare you to:
  • Understand and put into practice the main advanced modeling capabilities of SAP HANA 2.0 SPS03 in the areas of text search and analysis, graph modeling, spatial analysis and predictive modeling.
  • Promote these advanced modeling capabilities to extend the core SAP HANA Modeling features.
  • Broaden your experience with the modern SAP HANA tooling in XS Advanced (SAP Web IDE for SAP HANA)

Audience

• Business application consultant
• Data Consultant / Manager
• Database Administrator
• Application developer
• BI specialist

Essential

• HA100 – SAP HANA Introduction
• HA300 – SAP HANA Modeling

Course based on software release

• SAP HANA 2.0 SPS03

Content

• Introduction to Advanced Modeling
• SAP HANA Predictive Analysis Library (PAL)
• Describing SAP HANA PAL
• Using PAL in Flowgraphs
• Calling PAL Functions in Calculation Views
• Calling PAL Procedures in SQL Scripts
• Exploring the PAL Library
• SAP HANA Spatial
• Introducing SAP HANA Spatial
• Working with Spatial Data Types
• Importing and Exporting Spatial Data
• Accessing and Manipulating Spatial Data
• Using Spatial Clustering
• SAP HANA Graph
• Defining SAP HANA Graph Workspace
• Describing the Different Graph Algorithms
• Using the Graph Node in Calculation Views
• Using GraphScript Procedures
• SAP HANA Text
• Understanding Full Text Search
• Understanding Text Analysis
• Understanding Text Mining
• SAP HANA Series Data
• Getting Started with SAP HANA Series Data

Notes
• The information provided in the HA301 course is valid for participants who have followed the HA300 course in either SAP HANA 1.0 and SAP HANA 2.0.
• Certification C_HANAIMP_15 includes questions - approx. 25% - based on topics covered in HA301. We strongly recommend that you follow this course as part of your certification exam preparation.
HA300 - SAP HANA 2.0 SPS03 Modeling

Duration
5 days

Course announcements
- This course teaches the core capabilities of SAP HANA for modeling, and covers mainly Graphical modeling, which is illustrated by the SAP HANA Live virtual data model, as well as SQL-based modeling, mainly table functions and procedures, with a focus on performance. It also introduces Core Data Services as a flexible method to model a persistence layer.
- The participants will gain knowledge about the management of modeling content in the SAP Web IDE for SAP HANA, and the key principles of object and data access security in a modeling context.
- We also provide a quick overview of advanced data processing in the areas of text, spatial, predictive and graph modeling.

Goals
- This course will prepare you to:
  - Develop information models following SAP best practices for maximum performance and flexibility
  - Get started with SQL and SQLScript based modeling
  - Manage projects and modeling content in the Web IDE
  - Implement security and data access controls around SAP HANA data models
  - Get a quick overview of advanced data processing such as text, spatial, predictive and graph

Audience
- Business application consultant
- Data Consultant / Manager

- Database Administrator
- Application developer
- BI specialist

Essential
- HA100 – SAP HANA Introduction

Course based on software release
- SAP HANA 2.0 SPS03

Content
- Information Views
- Introducing Information Views
- Understanding the Different Types of Views
- Working with Common View Design Features
- Using Nodes in Calculation Views
- Using Projection Nodes
- Using Join Nodes
- Working with Data Sets
- Aggregating Data
- Creating Cubes with Star Join Calculation Views
- Extracting Top Values with Rank Nodes
• Modeling Functions
• Create Restricted and Calculated Columns
• Filter Data
• Use Variables and Input Parameters
• Create Hierarchies
• Implement Currency Conversion
• SAP HANA Studio Modeling
• Using SQL in Models
• Introducing SAP HANA SQL
• Working with SQLScript
• Query a Modeled Hierarchy Using SQLScript
• Creating and Using Functions
• Creating and Using Procedures
• CDS in SAP HANA Modeling
• Defining the Persistence Layer Using CDS
• Creating Views with CDS
• SAP Supplied Virtual Data Models
• SAP HANA Live
• Embedded Analytics and CDS
• Optimization of Models
• Using Tools to Check Model Performance
• Implementing Good Modeling Practices
• Management and administration of Models
• Working with Modeling Content in a Project
• Creating and Manage Projects
• Enabling Access to External Data
• Working with Git Within the SAP Web IDE
• Using SAP Enterprise Architecture Designer
• Migrating Modeling Content
• Security in SAP HANA Modeling
• Understanding Roles and Privileges
• Defining Analytic Privileges
• Defining Roles
• Masking Sensitive Data
• Anonymizing Data
• Introduction to Advanced Modeling

Notes

• Most of the activities of this course rely on the SAP Web IDE for SAP HANA, but graphical modeling in SAP HANA Studio is also covered with a dedicated unit.
HA100 - SAP HANA Introduction

Duration
2 days

Course announcements
• This course provides an introduction to SAP HANA. Through lectures and exercises you will quickly develop your knowledge of SAP HANA technology, architecture, data modeling, and data management. You will discover how SAP HANA powers many types of applications including S/4HANA, Business Suite, SAP Analytics, and SAP BW. You will learn how SAP HANA supports the development of brand new native applications including the SQL driven data warehouse. This short course is ideal for those who simply want the big picture of SAP HANA. This course is an important prerequisite for many detailed follow-on SAP HANA courses.

Goals
• This course will prepare you to:
• Understand the key concepts of SAP HANA and in-memory computing
• Create a data model with SAP HANA modeling tools
• Provision and enrich data into SAP HANA
• Run analytics on SAP HANA

Audience
• Application Consultant
• Change Manager
• Business Analyst
• Application Developer
• BI / BW consultant
• Data Scientist
• Database Administrator

Essential
• None

Course based on software release
• SAP HANA 2.0 SPS03

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
• Understanding SAP Supplied Data Models
• Advanced Modeling with SAP HANA
• Data Management with SAP HANA
• Describing Data Management
• Describing Data Acquisition Tools
• SAP HANA Data Management Suite
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
Appendix: Continuing your SAP HANA Learning Journey

Notes
- This course is based on SAP HANA 2.0 but is useful for customers working with SAP HANA 1.0
The "SAP Certified Application Associate - SAP HANA 2.0 (SPS03)" certification exam verifies that the candidate possesses the required knowledge in the area of the SAP HANA 2.0 based on SPS03 for the profile of an SAP HANA application consultant for SAP HANA modelers. This certificate builds on the basic knowledge gained through related SAP HANA training (HA100, HA300, HA301) and preferably refined by practical experience within an SAP HANA project team, whereby the consultant applies acquired knowledge in this specialist area practically in projects.

To ensure success, SAP recommends combining education courses and hands-on experience to prepare for your certification exam as questions will test your ability to apply the knowledge you have gained in training.

- You are not allowed to use any reference materials during the certification test (no access to online documentation or to any SAP system).
COURSE LISTING

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