DATA TECHNOLOGY PARTNERSHIP PROGRAM

PROGRAM OVERVIEW

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.

WHO SHOULD ATTEND

HA100 - SAP HANA Introduction
- Application Consultant
- Change Manager
- Business Analyst
- Application Developer
- BI / BW consultant & Data Scientist
- Database Administrator

HA300 - SAP HANA 2.0 SPS03 Modeling
- Business application consultant
- Data Consultant / Manager
- Database Administrator
- Application developer

HA301 - SAP HANA 2.0 SPS03 Advanced Modeling
- Business application consultant
- Data Consultant / Manager
- Database Administrator
- Application developer
- BI specialist

WHO SHOULD ATTEND

PREREQUISITES

HA100 - SAP HANA Introduction
- None

HA300 - SAP HANA 2.0 SPS03 Modeling
- HA100 – SAP HANA Introduction

HA301 - SAP HANA 2.0 SPS03 Advanced Modeling
- HA100 – SAP HANA Introduction
- HA300 – SAP HANA Modeling

COURSE TITLE | DURATION | LISTED PRICE
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Industry 4.0 Big Data – SAP HANA Data Modelling | 6 DAYS | RM 3,500.00

TRAINEE PROFILE

Xavier is an Engineering Graduate in Computer Science from New Delhi, India. Has over 12 years of experience in IT infrastructure, management, training and consultancy. Trained over 800 professionals and fresh graduates in the span of 4 years on various SAP, Microsoft and DevOps technologies. Key Subject Areas: Big Data, Data Engineering, Data Warehouse, Machine Learning, Artificial Intelligence, Azure Cloud, Business Intelligence Development & Reporting, Programming & Development and DevOps practices.

Trainees from various MNCs and Government sector organisations such as Petronas, BP, Shell, Sime Darby, BrightTree, EY, Accenture, Deloitte, Telekom Malaysia, Tenaga Nasional Berhad, Inteligence Malaysia, Abeam Consulting, Malaysian Airlines, Carlsberg, SAINS, HCL Axon, IBM, HP, World Health Organization among many others. As well as students and fresh graduates from UPM, UKM, UMP and UiTM (Shah Alam) universities.

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## Industry 4.0: Introduction to Concepts & Technology Pillars

**Module 1: Introduction and overview**
- Overall course objective and deliverables
- Overview of the course outline

**Module 2: Industry 4.0 Background**
- What is Industry 4.0 and why now?
- What enabled the new revolution?
- Industry 4.0 framework & blueprint

**Module 3: Overview of Pillar 1-4**
- Digital Supply Chain, IIoT, Cloud, Big Data Analytics

**Module 4: Overview of Pillar 5-8**
- Cybersecurity, Augmented Reality, Additive Manufacturing, Horizontal & Vertical Integration

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- Cyber security, Augmented Reality, Additive Manufacturing, Horizontal & Vertical Integration

**Module 5: Overview of Pillar 9-11**
- Autonomous Robot, Artificial Intelligence, New Business Model

**Module 6: Key Benefits of Industry 4.0**
- Business and operation
- Best practices from the pioneers

**Module 7: Organisation structure**
- OT & IT convergence & New roles and responsibilities

**Module 8: Summaries and Conclusions**
- Next steps

### HA100 - SAP HANA Introduction

- 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

### HA300 - SAP HANA 2.0 SPS03 Modeling

- 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

### HA301 - SAP HANA 2.0 SPS03 Advanced Modeling

- 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
- Describing S1AP 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