



## PC/HA34 - Customised SAP HANA Development (4 Day)

### Goals:

This course will prepare you to:

- develop more concise and well-performing ABAP programs using new features of the ABAP programming language
- develop and optimize ABAP applications that access data stored in the SAP HANA Database
  - Develop information models following SAP best practices for maximum performance and flexibility
  - Implement security and data access controls around SAP HANA data models
  - Get started with advanced data processing such as text, spatial, predictive and graph

### Audience

- Data Consultant / Manager
- Database Administrator
- Application Developer
- System Analyst

### Content

<b>Information Views</b>
<ul style="list-style-type: none"><li>• Connect Tables</li><li>• Create Dimension and Cube Calculation Views</li></ul>
<b>Modeling Functions</b>
<ul style="list-style-type: none"><li>• Create Hierarchies</li><li>• Create Calculated and Restricted Columns</li><li>• Filter Data</li><li>• Use Variables and Input Parameters</li><li>• Implement Currency Conversion</li></ul>
<b>SAP HANA Studio Modeling</b>
<b>Virtual Data Models in SAP HANA</b>
<ul style="list-style-type: none"><li>• Use SAP HANA Live</li><li>• Overview of Virtual Data Models built with Core Data Services (CDS)</li></ul>
<b>Management and administration of Models</b>
<ul style="list-style-type: none"><li>• Work with Modeling Content</li><li>• Create and Manage Projects</li><li>• Overview of classical models migration to Web IDE</li></ul>
<b>Security in SAP HANA Modeling</b>
<ul style="list-style-type: none"><li>• Understand the Key Concepts of SAP HANA Security</li><li>• Define Data Access Security</li><li>• Define Roles</li></ul>



<b>Overview of Text, Spatial, Predictive and Graph Modeling</b>
<b>Introduction</b>
<ul style="list-style-type: none"><li>• Understanding SAP HANA and how it impacts the ABAP development paradigm</li><li>• Introduction to ABAP Development Tools (also known as ABAP in Eclipse)</li></ul>
<b>Taking ABAP to SAP HANA</b>
<ul style="list-style-type: none"><li>• Accessing SAP HANA as a Secondary Database</li><li>• Tools to detect potential functional and performance issues when migrating to SAP HANA: Code Inspector and ABAP Test Cockpit, ABAP Trace and ABAP Profiler, SQL Trace</li><li>• Tools to prioritize performance issues: SQL Monitor, SQL Performance Tuning Worklist</li><li>• Performance Rules and Guidelines for ABAP in the context of SAP HANA</li></ul>
<b>SAP HANA Proxy Objects</b>
<ul style="list-style-type: none"><li>• Creating and using External Views</li><li>• Database Procedure Proxies</li><li>• HANA Transport Container</li></ul>
<b>Advanced Topics</b>
<ul style="list-style-type: none"><li>• Using SAP HANA Full Text Search in ABAP</li><li>• Enabling input fields for type-ahead search</li><li>• SAP List Viewer (ALV) for SAP HANA</li></ul>