# ABAP Programming for SAP HANA Training

Duration: **3 Day**

BILGINÇ
IT Academy
info@bilginc.com
bilginc.com

## Overview

In this course, you learn how you can use SAP HANA and new features in the ABAP programming language to optimize existing ABAP code and to develop innovative ABAP applications to enhance your business.

## Prerequisites

**Essential**

- Basic Knowledge of SAP HANA
- BC400
- BC401
- Experience in ABAP Programming, esp. Open SQL (joins, views, aggregations)

**Recommended**

- The HA100 course provides a good understanding of SAP HANA and it is highly recommended for participants who want to attend this course
- HA150
- BC404

## Who Should Attend

- Application Consultant
- Developer
- Developer Consultant

## What You Will Learn

- 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

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## Outline

- Introduction
  - Understanding SAP HANA and how it impacts the ABAP development paradigm
  - Introduction to ABAP Development Tools (also known as ABAP in Eclipse)

- Taking ABAP to SAP HANA
  - Accessing SAP HANA as a Secondary Database
  - 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
  - Tools to prioritize performance issues: SQL Monitor, SQL Performance Tuning Worklist
  - Performance Rules and Guidelines for ABAP in the context of SAP HANA

- Database Independent Code-to-Data
  - Enhanced Open SQL
  - Defining advanced views using Core Data Services (CDS) and CDS Associations in ABAP
  - Incorporating Authorization Checks with CDS in ABAP

- SAP HANA specific Code-to-Data
  - Using native SQL and ABAP Data Base Connectivity (ADBC)
  - Creating, using and debugging ABAP Managed Database Procedures

- Consuming SAP HANA Objects in ABAP
  - Consuming SAP HANA objects in ABAP using native SQL and ADBC
  - Creating and using External Views
  - Database Procedure Proxies

- Advanced Topics
  - ABAP Transport of SAP HANA Objects (HTC and HTA)
  - Using SAP HANA Full Text Search in ABAP
  - Enabling input fields for type-ahead search
  - SAP List Viewer (ALV) optimized for SAP HANA