

SAP ABAP (with S/4HANA, CDS, RAP) Course Content

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ABAP Fundamentals

- SAP System Architecture, Work Processes, Client Concept
- ABAP Workbench: SE80, SE38, SE11, SE37, SE24 Overview
- ABAP Syntax, Data Types, Data Objects, Operators

ABAP Dictionary (Hands on)

- Tables, Structures, Views, Data Elements, Domains
- Search Helps, Lock Objects, Table Maintenance Generator
- Indexes, Foreign Keys, Append Structures, Includes

ABAP Programming (Hands on)

- Reports, Selection Screen, Events, Control Statements
- Internal Tables, Work Areas, Field Symbols, Data References
- Open SQL, Joins, FOR ALL ENTRIES, Aggregations
- Modularization: Subroutines, Function Modules, Includes, Macros

Classical and Interactive Reports

- Classical Reports, Interactive Reports, Drill-Down
- ALV Reports: Classical, OO, and SALV
- Selection Screen Variants, Parameters, Select-Options

Dialog Programming

- Module Pool Programming, Screens, Flow Logic
- Table Control, Tab Strip, Subscreens
- PBO, PAI, GUI Status and Menu Painter

Object Oriented ABAP

- Classes, Objects, Inheritance, Polymorphism, Interfaces
- Events, Exception Classes, Static and Instance Members
- Local and Global Classes, Design Patterns Overview

Forms

- SAP Script and Smart Forms
- Adobe Forms, Output Management

Data Transfer and Enhancements

- BDC, LSMW, BAPI, Call Transaction, Session Method
- User Exits, Customer Exits, BADI, Enhancement Framework
- Implicit and Explicit Enhancements, Enhancement Spots

Interfaces

- IDoc: Basic Types, Message Types, Partner Profiles
- ALE, RFC, BAPI, Proxies
- OData Services with SEGW, Fiori Backend Development

ABAP on HANA and S/4HANA (Hands on)

- Code Pushdown, Code Inspector, SQL Monitor, Performance Tools
- Core Data Services (CDS) Views, Annotations, Associations
- AMDP (ABAP Managed Database Procedures)
- ABAP Development Tools (ADT) in Eclipse

RAP and ABAP Cloud (Concepts)

- RESTful Application Programming Model (RAP)
- Behavior Definitions, Managed and Unmanaged Scenarios
- Clean Core and Released APIs

- Debugging, Runtime Analysis, Unit Testing with ABAP Unit