Unogeeks

SAP ABAP HANA Training Course Content

Course Duration - 45-50 Hrs., 7-8 Weeks

Course Information

Batch Options

Weekday Batch
Mon – Fri – 1.5 Hr./Day

About the Trainer

Industry Expert Trainer with 15+ Years
Real Time Work Experience at Top US
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Introduction To SAP ABAP HANA Training (Live Project)

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SAP stands for System Applications and Products in Data Processing. **SAP** is the market leader in ERP software and helps companies of all sizes. **SAP ABAP HANA** technical consultants are in great demand in today's job market.

What you'll learn

- Introduction to ABAP/4 & Data Dictionary Objects - Tables, Views, Data Types & Type Groups

- Master Search Helps, Internal Tables, OPEN SQL

- Modularization - Include programs, Function Modules, Subroutines

- Reports - Selection-screen, Classical & Interactive Reports

- Forms - Scripts, Smart forms, Adobe forms

- Interfaces and Conversions - BDC, LSMW, BAPI, ALE/IDOC

- Module Pool Programming, Object Oriented ABAP & ALV Reports

- Enhancements - User-Exits, Customer-Exits & BADI's, Workflows, Webdynpro

- ABAP on HANA - HANA, ODATA, Fiori & UIS Overview & BTP ABAP Overview

Course Content

Module 1: Introduction to ABAP/4

- ➤ System Landscape
- ➤ Naming Conventions
- ➤ Introduction to Write Statement
- ➤ System Variables
- ➤ Edit Mask
- ➤ User Settings
- ➤ Data Types
- ➤ General structure of ABAP Program
- ➤ Conditional statements
- ➤ LOOP Statements
- ➤ Exit, Continue, Stop Statement
- ➤ String Operations
- ➤ Package Creation
- ➤ Transport Requests

******** Data Dictionary Objects ********

- ➤ Domains
- ➤ Data Elements

Module 2: Tables

- ➤ Key Fields, Buffer
- ➤ Types of Tables
- ➤ Currency/Quantity Fields
- ➤ Structures: Append Structure/Include Structure
- ➤ Foreign Key Relationship: CHECK table, FOREIGN key table
- ➤ VALUE table, Domain Properties
- ➤ Table Maintenance Generator

Module 3: Views

- Database
- Projection View
- Help View
- Maintenance View

Module 4: Data Types & Type Groups

Module 5: Search Helps

- Elementary Search helps
- Collective Search helps
- Match code objects
- Assigning Search
- Helps Lock objects

Module 6: Internal Tables

- Variables
- Work Areas
- Internal table
- Types of Internal Tables
- Internal Table Operations
- Control Break statements

Module 7: OPEN SQL

- ➢ R/3 Interface Layer
- ➢ Open SQL/Native SQL
- ➢ Introduction to SELECT statement
- ➢ More about SELECT Statement
- ➢ SELECT with JOINS
- ➢ SELECT FOR ALL ENTRIES
- ➢ SELECT single/up to 1 Rows
- ➢ List of OPEN SQL Statements: INSERT, MODIFY, UPDATE, DELETE

******** Modularization ********

Module 8: Include programs

- ➢ Standard Includes programs
- ➢ Customized Include programs

Module 9: Function Modules

- ➢ Import/Export/ Changing
- ➢ Tables
- ➢ Exceptions
- ➢ RFC Function Module
- ➢ Update Function Module

Module 10: Subroutines

- ➢ Local subroutines
- ➢ External Subroutines

******** Reports ********

Module 11: Selection-screen

➢ Main stages of report

➢ Selection Screen Commands-Parameters, Select-options, SS format.

➢ Variants, Select Texts, Text Symbols, Messages

➢ Selection screen Events

Module 12: Classical Reports

➢ Classical Report Events and Programing

Module 13: Interactive Reports

➢ Interactive Events

➢ Interactive Report using HIDE

➢ Interactive Report using GET CURSOR

➢ Interactive Report using AT-USER COMMAND

➢ Menu Painter-Menu Bar, Application Tool Bar, Standard Tool Bar.

Module 14: ALV Reports

➢ ALV Report with Structure

➢ ALV with Field catalog

➢ ALV with Layout

➢ ALV with field catalog Merge

➢ ALV with Totals and Subtotals

➢ ALV with Logo

➢ TOP-OF-PAGE

➢ END-OF-LIST

➢ Interactive, Hierarchical & Blocked ALV

Module 15: Performance Tuning

- ➢ Run Time Analysis
- ➢ SQL Trace
- ➢ Extended SLIN Check
- ➢ Code Inspector

******** Forms ********

Module 16: Scripts

- ➢ What is a SAP SCRIPT?
- ➢ Why SAP scripts are client dependent
- ➢ Components of SAP Scripts
- ➢ Window Types
- ➢ Using logos, Address, Windows
- ➢ Passing Data b/w Driver program and SCRIPTS
- ➢ Symbols-system symbols/program symbols
- ➢ Control Commands: Define, address, and TOP...END
- ➢ TOP, Bottom...End bottom, Protect...End protect, New-Page
- ➢ Standard Text
- ➢ Debugging scripts

Module 17: Smartforms

- What is smart form?
- Diff b/w scripts and smart forms
- Function Module in smart forms
- SSF_FUNCTION_MODULE_NAME
- Smart Style
- Components of smart form
- Window types
- EX ON WINDOW-TITLE/PAGENO
- EX ON TEXT
- EX ON GRAPHIC
- EX ON ADDRESS passing data b/w driver program and SF with ex
- EX ON TEMPLATE
- EX ON TABLE/CONDITIONS
- EX ON PROGRAM LINES
- EX ON ALTERNATIVE/CONDITIONS
- EX ON LOOP
- EX ON FOLDER
- Debugging Smart form

Form Configuration

Module 18: Adobe forms

- Adobe forms Overview
- Page concept and Elements of form
- Online and offline forms
- Scripting language in Form level
- Adobe Form Design and Configuration

******** Interfaces and Conversions ********

Module 19: BDC

- What is BDC?
- Types of Data Transfer
- Various Methods in data transfer
- Call Transaction
- Session Method
- File upload from - Presentation Server/ Application Server

Module 20: LSMW

Module 21: BAPI

- What is BOR?
- What is BAPI, Rules?
- Diff b/w RFC and BAPI
- Various scenarios of BAPI
- Creating a custom BAPI
- Uploading using BAPI
- Reports using BAPI

Module 22: ALE/IDOC

- What is ALE and Types of data transfer?
- What is EDI?
- What is I DOC and Real time example of IDOC?
- Components of IDOC
- Message type
- Process Codes
- Port Configuration
- Partner profile Configuration
- Customer Distribution model
- Step to create segment
- Step to create IDOC'S/Segments
- Structure of data transfer
- Outbound program, Configuration settings
- Table for message types/IDOC types / outbound program /process
- codes. FILTERING:
- IDOC filtering
- Segment filtering
- Custom IDOC'S/Extended IDOC's

Module 23: Module Pool Programming

- Introduction
- Screen Events
  - PAI
  - PBO
  - POH
  - POV
- Structure of MPP program

- ➢ Ex on Text Field
- ➢ Ex on Input Field/Button/Box
- ➢ Ex on Tab strip
- ➢ Ex on Table Control
- ➢ Ex on editable Table Control
- ➢ Navigation b/w Screens
- ➢ Call Screen/Set Screen/Leave Screen

Module 24: Object Oriented ABAP

- ➢ Object Oriented ABAP
- ➢ What is a Class, Object, Instance,
- ➢ Components of Class
- ➢ Types of instances
- ➢ Visibility of Components
- ➢ Ex on Instance/Static Attributes
- ➢ Ex on Methods-Using importing, Exporting, Table Types, TYPES
- ➢ Constructor and its Types
- ➢ Ex on Constructor
- ➢ Using Interfaces, Aliases, Inheritance, abstract Class
- ➢ Using local classes for all the above concepts

Module 25: Object Oriented ALV Reports

- ➢ OO-ALV with Structure
- ➢ OO-ALV with Field catalog
- ➢ OO-ALV with Field catalog merge
- ➢ OO interactive ALV's
- ➢ OO interactive ALV's with 2 grids on a single screen
- ➢ OO ALV with Tree

➢ OO-ALV with Splitter control

➢ OO-ALV with LOGO/Top of Page

******** Enhancements ********

Module 26: User-Exits

Module 27: Customer-Exits

➢ What are Customer Exits?

➢ Types of Customer Exits

➢ Function Module exit using CALL CUSTOMER

➢ Function Module exit using SMOD

➢ MENU EXIT

➢ SCREEN EXIT

➢ Field Exit

Module 28: BADI's

➢ What is a BADI?

➢ Diff b/w Exits and BADI'S

➢ Single Implementation BADI

➢ Multiple Implementations BADI

➢ FILTER BADI/Custom BADI

Module 29: Enhancement Framework

➢ Enhancement spots

➢ Enhancement section

➢ Types of Enhancement spots

➢ Implicit Spots and Explicit Enhancement spots

******** Advanced Concepts ********

Module 30: Workflows

- ➢ What is Workflow
- ➢ Uses of workflow
- ➢ Configuration of workflow
- ➢ Enhancement of Standard workflow
- ➢ Elements in workflow
- ➢ Types of containers and Tasks
- ➢ Error analysis of workflow

Module 31: Overview on Webdynpro

- ➢ Introduction
- ➢ Architecture
- ➢ Webdynpro Application creation

******** ABAP on HANA ********

Module 32: HANA

- ➢ Introduction to ABAP on HANA
- ➢ CDS Views
- ➢ AMDP
- ➢ ALV in ABAP HANA
- ➢ HANA migration Steps
- ➢ ABAP 7.40 Coding
- ➢ ATP Check

Module 32: ODATA

- Introduction
- Architecture
- Entity Creation
- Runtime Artifacts
- DPC & MPC classes and re-defining DPC methods
- Associations
- DEEP Entity Creation
- Function Import
- Service Creation
- CRUD Operations

Module 33: Fiori & UIS Overview

Module 34: BTP ABAP Overview

- RESTful ABAP Framework.
- create Fiori Application on sap BTP cloud Platform with ABAP language.
- Implementation of Behavior Definition for CRUD Operation on Business Object.
- How to Handle All Operation Inside Behavior Implementations with Real Case study.

Module 35: Functional Overview

- SD (Sales & Distribution): Business Flow, Transactions, Tables, Standard Reports
- MM (Material management): Business Flow, Transactions, Tables, Standard Reports

********* PROJECT – Implement SAP ABAP HANA for a Live Project

Introduction to Project Use Case

- Implement SAP ABAP HANA for a Live Project.

Project Work:

- Understand the requirement and come up with technical specs.

➢ Design SAP ABAP HANA components as per client requirements.

Module 36: Project Work – Build SAP ABAP HANA project components.

➢ Build SAP ABAP HANA Components as per client requirements.

➢ Test the components.

Module 37: SAP ABAP HANA Certification Guidance

➢ Explain various SAP ABAP HANA Certification Options

➢ Discuss Important SAP Certification Exam Questions

➢ Prepare for SAP ABAP HANA Certification

Module 38: Resume Preparation, Interview and Job Assistance

➢ Prepare Crisp Resume as SAP ABAP HANA Specialist

➢ Discuss common interview questions in SAP ABAP HANA

➢ Provide Job Assistance