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SAP ABAP

ADVANCED BUSINESS APPLICATION PROGRAMMING

Welcome to SAP ABAP

This comprehensive ERP SAP ABAP Training Program is designed to build strong technical expertise in SAP ERP development and customization. The course covers core ABAP programming, advanced reporting, OOPS concepts, interface development, forms, enhancements, workflows, and cross-application integrations used in real-time enterprise environments.



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WHY QUANTUMAI?

Quantum AI combines advanced computing and artificial intelligence to solve complex problems faster and smarter. We focus on future-ready skills, practical learning, and real-world applications in Data, AI, and emerging technologies. Our industry-oriented training prepares students to lead innovation and build successful careers in tomorrow's technology-driven world.

COURSE OVERVIEW

The ERP SAP ABAP (Advanced Business Application Programming) course is a comprehensive, industry-focused program designed to build strong technical expertise in SAP development within the SAP ERP environment. This training covers core ABAP programming, Open SQL, internal tables, modularization, and report development, along with advanced topics like OOPS, ALV reporting, dialog programming, and interface development using BDC, IDOCs, RFC, and BAPIs. Students also learn Smart Forms, enhancements, workflows, and transport management. By the end of the course, learners can confidently develop and customize real-time SAP applications in enterprise projects.



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WHAT YOU WILL LEARN

Introduction to ERP & ABAP/4

- Overview of Enterprise Resource Planning (ERP)
- Introduction to SAP ERP and R/3 Architecture
- Introduction to ABAP/4 Language
- ABAP Editor (New ABAP Editor Features)
- Data Types & Output Statements
- Arithmetic & String Operations
- Control Statements & Parameters
- Open SQL (Insert, Modify, Delete, Update)
- Simple Reporting & Selection Screens
- Transaction Code Creation
- Data Dictionary (Tables, Data Elements, Domains, Structures)
- Search Helps, Views, Type Groups
- Table Maintenance Generator
- Primary & Foreign Keys
- Check & Value Tables

Reporting & Debugging

- Debugging Techniques
- Breakpoints & Watchpoints
- New Debugger Usage
- Internal Tables (Declaration, Processing, Population)
- Control Break Statements
- Modularization Techniques:
- Includes
- Subroutines
- Function Modules
- Macros
- Variants & Conversion Exits
- Joins & For All Entries
- Message Class Creation & Handling
- Classical & Interactive Reports
- Menu Painter
- Buttons, Hide & Hotspot

ABAP OOPS

- Fundamentals of Object-Oriented Programming
- Local Classes & Methods
- Public, Private & Protected Sections
- Reporting Using OOPS
- Global Classes & Interfaces
- Using Global Classes in Reports

ALV (ABAP List Viewer)

- Introduction to ALV
- Types of ALV Reports
- ALV List using Function Modules
- ALV Grid using Function Modules
- Interactive ALV Reports
- OO ALV using Classes (List & Grid)

Dialog Programming

- Screen Painter & Dialog Programming
- Flow Logic (PBO, PAI, POV, POH)
- Screen Designing & Object Browser
- Field Validations
- Table Controls & Tab Strips
- Dynamic Screens
- Call Screen, Set Screen, Leave Screen
- Lock Objects
- Screen Table Processing

Interface Programming

- Data Transfer Concepts
- Batch Data Communication (BDC)
- File Handling (Presentation & Application Server)
- Call Transaction & Session Method
- Error Handling in BDC
- LSMW (Legacy System Migration Workbench)
- Data Uploading & Flat File Creation

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WHAT YOU WILL LEARN

Forms & Output Management

ERP Scripts

- Layout Sets
- Control Commands
- Logo Inclusion
- Modifying Standard Layouts

Smart Forms

- Smart Form Design
- Standard Texts & Graphics
- Print Program Development
- Output Type Configuration

Adobe / Interactive PDF Forms

- Introduction to Adobe Forms
- Interactive Form Concepts

Miscellaneous Advanced Topics

- ERP System Landscape
- CTS (Correction & Transport System)
- Transport Organizer
- Workbench Requests & Tasks
- Memory Management (SAP Memory & ABAP Memory)
- SET/GET Parameters
- Logical Databases (LDB)
- Field Symbols
- SD & MM Flow Overview

Cross Application & Integration

RFC

- RFC Destinations
- RFC Enabled Function Modules

IDOCs

- IDOC Structure & Types
- Custom Segment Creation
- Standard Message Types
- Custom IDOC Development

ALE

- Logical Systems Configuration
- Inbound & Outbound Processing
- Master Data Distribution

Function Modules

- Function Groups
- Types of Function Modules
- FM Interfaces
- Update Programs

BAPI & Business Objects

- Introduction to BAPI
- Business Object Repository
- Step-by-Step BAPI Creation

IEnhancements

- User Exits
- BADIs (Business Add-Ins)
- Enhancement Spots & Implementations
- Class Enhancements

ERP Workflow

- Introduction to SAP Workflow
- Workflow Elements
- Binding Concepts
- Business Object Events
- Simple Practical Workflow Examples



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BUILD SCALABLE APPLICATIONS

Learn Manual SAP ABAP with QuantumAI

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