



SAP ABAP COURSE CONTENT

SAP ABAP

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| Title | : SAP ABAP Training |
| Category | : Technical |
| Duration | : 40 hrs |
| Timing | : week Days: 2hrs per day (OR) Weekend: 3 hrs |
| Method | : Online / Classroom Training |
| Breaks | : 10 minutes break if required |
| Study Material | : Will be Provided |
| System Access | : For 4 Months |

What is SAP ABAP ?

ABAP is one of the many application-specific fourth-generation languages (4GLs) first developed in the 1980s. It was originally the report language for SAP R/2, a platform that enabled large corporations to build mainframe business applications for materials management and financial and management accounting.

ABAP (Advanced Business Application Programming) was one of the first languages to include the concept of Logical Databases (LDBs), which provides a high level of abstraction from the basic database level(s).

The ABAP programming language was originally used by developers to develop the SAP R/3 platform. It was also intended to be used by SAP customers to enhance SAP applications – customers can develop custom reports and interfaces with ABAP programming.

Who can Learn SAP ABAP ?

*Freshers with Programming Skills

*Any IT Guy with Programming Background

*People Who are currently working in SAP Functional Modules and **can learn SAP ABAP**

ABAP Dictionary Concepts

- Tables, Data Elements and Domains
- Transparent, Pooled and clustered tables
- Buffering, Indexes etc.,
- Structure, Table types and Type pools
- Views, Search helps and Lock objects

ABAP Programming Basics

- Data Types, Variables, Types, Operators, Expressions etc
- I/O Statements, Formatting commands
- Conditional statements, Loops and termination statements
- String and Date operations and System fields
- Fields Strings and Text Elements
- Internal Tables (All Operations)
- Types of Internal Tables (Standard, Sorted and Hashed)
- Joins, Nested selects Sub queries and For All Entries etc
- Open SQL statements and performance issues
- Messages (Creating and Calling etc.,)
- Modularization (Subroutines, Function Modules, Macros and Includes)
- Field Symbols
- Revision
- Debugging programs (Break Point, Watch points etc)
- Extended syntax check, Runtime Analysis, Performance Trace

Reports

- Classical Report Events
- Control Level Commands (AT First, AT New etc.),
- Selection Screen: Parameters
- Select –options and variants
- Selection screen designing (Blocks, Pushbuttons, Radio buttons etc)
- Interactive report events
- Menu painter: Designing and calling GUI Status
- Hide, Read Line, Get cursor, Modify line, Window etc., statements
- System fields of reports
- Logical database (Designing, Events)
- SAP Query (User groups, Info Sets and Queries)
- ALV reporting

Dialog Programs

- ABAP Memory and SAP Memory
- LUW and Update bundling technique
- Screens, flow logic events and Module pool
- Basic Screen elements (I/O field, Radio buttons and Check box etc.,)
- Maintaining screen sequences (Set screen, Call Screen and leave to screen)
- Field checks (Automatic, flow logic and module pool)
- Calling Programs (Submit, Call Transaction, Leave to list processing)
- Sub screens and modal Screens
- Table Controls, Steploops and Tabstrips

File Handling

- Local Files (Upload, Download etc)
- Sequential Files (Open dataset, Read Dataset, Transfer etc.)
- Files Formats
- Logical Files and Physical files
- Data Transfer Scenarios and methods
- BDC session method (Creating, Processing, Analyzing and Correction errors in Sessions)
- Recording Technique
- BI Session features, Status and OK codes
- Call Transaction method (Options, Tracing errors and Correction)
- Background Processing (Creating, Scheduling and Monitoring Jobs)
- LSMW (Methods, Steps and Conversions rules etc.)

SAP Scripts

- Form designing (Pages, Windows, Page windows and Paragraphs etc.)
- SAP Script symbols
- Control commands
- Standard Text and Styles
- Inserting Logos (TIFF and Bitmap images)
- Modifications to Form and Print program
- Debugging, copying forms etc.

Smart Forms

- Smart form and Form Logic
- Calling a Form from print program
- Different types of nodes (Page, Table, Loop etc)
- Difference between SAP Script and Smart Forms

Enhancements

- Changing SAP Standard
- User Exits and Customer exits
- Implementing Function, Menu, Screen exits
- BADI

ALE

- Distributed Systems
- ALE Services and features
- ALE Inbound and Outbound process
- ALE Configuration (Logical systems, RFC Dest., Model view, Port, Partner Profiles etc)
- ALE Distribution Scenarios
- Transferring of Master Data (PUSH, PULL and Change Pointers)
- Filtering concepts (IDOC and Segment filtering, Message reduction)

IDOC

- Features and structure of IDOC
- Idoc type and Message type
- Segment definition and components
- Creating Segments
- Creating Idoc types (Basics Type and Extension)
- Crating Message types and Process codes
- Developing Selection and Posting programs
- Idoc Enhancements

RFC

- Introduction of RFC
- Communication mechanisms through RFC
- ABAP interfaces (RFC, tRFC, ARFC)
- Difference between tRFC and ARFC

BAPI

- SAP Business Objects
- Business Object Builder and BOR
- Features and applications of BAPI
- Creating Business Object types
- Developing BAPIs
- Working with a standard BAPI