

## **SAP ABAP Course Content:35-40hours**

---

### Course Outline

#### **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)
- Creating 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