

## SAP ABAP Course Content (Basic and Advance)

### INTRODUCTION TO SAP AND ABAP/4 LANGUAGE

- Overall introduction to ERP
- Introduction SAP R/3 architecture, Introduction to SAP ABAP/4
- ABAP/4 editor (Focus on the functionalities of new ABAP editor)
- Data types
- Output statements
- Writing small programs
- Arithmetic operations
- String operations
- Control statements
- Parameters
- Open SQL –statements {insert, modify, delete, update}.
- Simple reporting
- Selection screens
- Transaction code creation
- Data Dictionary
  - Tables
  - Data element
  - Domain
  - Structures
  - Search helps
  - Views
  - Type Groups
  - Table maintenance generator and T-code creation
  - Primary and foreign keys.
  - Check and value tables.

### REPORTING

- Debugging techniques
  - Breakpoint creation.
  - Watch point creation.
  - Emphasize on the usage of New Debugger.
  - Modes of Debugging.
  - System Debugging.

- Update Debugging.
  - Background Debugging.
  - Debugging Background Jobs.
- Internal tables
  - Declaration
  - Type Casting
  - Processing.
  - Population.
- Control Break Statements.
- Modularization techniques.
  - Includes.
  - Subroutines.
  - Function modules.
  - Macros
- Variants.
- Conversion exits.
- For all entries and joins {inner and left outer}.
- Message class creation & message types and handling messages.
- Events for classical reports.
- Events for interactive reports.
- Hide and hotspot.
- Creating and handling buttons.
- Menu painter.

## ABAP OOPS

- Fundamentals of OOPS.
- Introduction to Local classes and methods
- Importance of Public, Private and Protected sections.
- Simple reporting using local classes and methods.
- Global classes and interfaces.
- Usage of global classes in the reports.
- Class Based Exception Handling Mechanism - Exception Classes.

## ALV

- Introduction.
- Types of ALV
- Simple report to display simple ALV List using Function Modules
- Simple report to display simple ALV grid using Function Modules.

- Interactive ALV Reports.
- Working with OOALV using classes (List, Grid).

## DIALOG PROGRAMMING

- Introduction to screen painter and dialog programming.
- Flow logic
  - PAI.
  - PBO.
  - POV.
  - POH.
- Screen designing.
- Programming in object browser.
- Field validations.
- Creation of
  - Table Controls.
  - Tab Strips.
- Dynamic Screen.
  - Call Screen.
  - Set Screen.
  - Leave to Screen.
  - Leave Screen.
- Processing of list from transaction and vice versa.
- Screen table and its fields.
- Lock objects.

## INTERFACE PROGRAMMING

- Why Data Transfers
- Introduction to BDC.
- File Handling.
  - Presentation server.
  - Application server.
- Recordings.
- Methods in BDC.
  - Call transaction.
  - Session method.
- Error Handling in Call Transaction.
- Legacy System Migration Workbench (LSMW)
- Different methods.

- Steps to Create an LSMW Project.
- Flat file creation.
- Uploading data.

## SAP Scripts

- Introduction.
- Layout Sets.
- SAP Script Elements.
- Modifying standard layout sets (by using subroutines).
- Including logo.
- SAPscript Control Commands.
- SAPScripts Operations using different standard RSTX\* Programs.
- MultiLanguage Handling in SAPScripts.

## SMARTFORMS

- Working with smart forms.
- Standard Texts.
- Graphics management.
- Writing print program and designing layouts.
- Output type configuration to standard orders.

## ADOBE FORMS / INTERACTIVE FORMS (PDF)

- Introduction

## MISCELLANEOUS TOPICS

- SAP System Landscape.
- Correction and Transport System (CTS).
- Transport Organizer.
- Workbench Request.
- Task Creation.
- Merging Requests
- Release Requests.
- SAP memory.
  - SET/GET parameters.
- ABAP memory.
  - Imports/ Exports.
- Logical Database and Handling Events (LDB).

- Field symbols.
- SD flow.
- MM flow.

## FUNCTION MODULES

- Concepts of Function Group.
- Different Types FMs.
- Concepts of FM interface.
- Concepts of Update Programs.

## CROSS APPLICATION

- Introduction to CA.
- RFC destination.
- Working with RFC function modules.

## IDOCS

- Concepts of IDOCS.
- Structure of IDOCS and Types.
- Creation of segments
- Creation of IDOCS.
- Using standard message types

## ALE

- Defining logical systems used for ALE interfaces.
- Outbound / Inbound processing.
- Transferring of master data from one system to another system.
- Distribution modal view.
- IDOC Programming / Custom IDOCS.

## BAPI and Business Objects

- Introduction to BAPI
- Overview of Business Objects.
- Step By Step Approach followed to create BAPI.

## ENHANCEMENTS

- Introduction to enhancements.

- Different Ways of doing Enhancements.
- User Exits.
- Introduction to BADI
- How to implement BADI
- Enhancement Framework
- Explicit Enhancement
- Implicit Enhancement
- Overview on Enhancement Spots, Enhancement Section, Enhancement Implementations and Class Enhancement

## SAP WORKFLOW

- Introduction of SAP WORKFLOW.
- Introduction of different elements of Workflow.
- Introduction to concepts of Binding.
- Introduction to Business Object Events
- Simple practical examples of SAP Workflow
- Introduction to SAP HANA ABAP - Overview
- CV Preparation and Real Time Project Discussion
- Mock Interview for Technical Interview Preparation