

# SAP ABAP

## COURSE CONTENT



- ❖ **Introduction to ERP**
  - ERP Packages
  - Introduction to SAP
  - Functions and Objectives of MM
- ❖ **SAP Navigation**
  - Login
  - Sessions
  - SAP Screens
  - Features of SAP Navigations
- ❖ **Introduction to SAP & R/3 Architecture**
  - SAP R/2 Architecture (Limitations of R/2 Architecture)
  - SAP R/3 Architecture (Types of work processes)
  - SAP R/3 Application Modules
  - SAP Landscape
- ❖ **Introduction to ABAP/4 What is ABAP?**
  - Logon to SAP Environment
  - Transaction Codes
  - Multitasking Commands
  - Comments
  - Errors
  - ABAP/4 Editor ( SE38 )

- Steps for Creating a Program
- Elements in R/3 Screen
- Output Statements
- Operators in ABAP
- Data, Parameter & Constant Statements
- Data Types & Classification
- Data Objects & Classification
- Text Elements
- String Operations
- Control Statements
- Field strings

#### ❖ **ABAP Dictionary**

- ABAP Dictionary Introduction
- Data Dictionary Functions
- Data Dictionary Objects
- Data Base Tables
- Structures
- Views
- Data Elements
- Type Groups
- Domains
- Search helps
- Lock objects
- Primary Key And Foreign Key
- Table Maintenance Generator

## ❖ Packages

- Creating a package
- Difference between local objects & packages
- Transferring local objects to packages

## ❖ Variants

- Variants Introduction
- Creating variants in ABAP Editor & Data Dictionary

## ❖ Message Classes

- Message Class Introduction
- Message types
- Calling message class in Report & Dialog programs

## ❖ Selection Screens

- Selection screen
  - Introduction
    - Parameter Statement
  - Select-options Statement
  - Selection-screen Statement
- Screen table and its fields
  - Dynamic screen modification by using Modif Id key

## ❖ Open SQL Statements

- Select
- Insert
- Modify
- Update
- Delete

## ❖ Internal Tables

- Internal Tables Introduction

- Declaring Internal Table
- Populating Internal Table
- Processing Internal Table
- Initializing Internal Tables
- Inner Joins And For All Entries
- Control Break Statements

#### ❖ **Debugging Techniques**

- Debugging Techniques Introduction
- Break-points (Static & Dynamic)
- Watch points
- Dynamically changing internal tables contents in Debugging Editor
- Options to step through the program in Debugging Editor

#### ❖ **Modularization Techniques**

- Modularization Techniques Introduction
- Includes
- Subroutines
- Passing Parameters to Subroutines
- Passing Tables to Subroutines
- Function Groups & Function Modules

#### ❖ **Reports**

- Reports Introduction
- Classical Reports
- Interactive Reports
- Techniques Used For Interactive Reports
  - Hotspot
  - Hide
  - Get Cursor

## ❖ Dialog / Module Pool Programming/ Transactions

- MPP Introduction
- Relationship between Screen, Flow Logic and Program
- Flow Logic Events
  - Process Before Output (PBO)
  - Process After Input (PAI)
  - Process On Value Request (POV)
  - Process On Help Request (POH)
- Include Programs in MPP
  - Include TOP
  - Include I01
  - Include O01
  - Include F01
- Dynamic Screens
  - Leave Screen
  - Leave to Screen
  - Call Screen
  - Set Screen
- Processing of List from Transaction and Vice Versa
- Elements in Screen Layout
  - Table Controls
  - Tabstrip Controls
  - Subscreens

## ❖ Batch Data Communication

- BDC Introduction
- Recording
- BDC Methods
  - Call Transaction Method
  - Session Method

- Handling Table Controls in BDC
- Legacy System Migration Workbench
  - Different Methods
  - Flat file creation
  - Uploading data
- File Handling - Application Server/Presentation Server

#### ❖ **SAP Scripts**

- SAP Scripts Introduction
- Components of SAP Scripts
  - Layout Set
  - Standard Text
  - Out Put Program
- Modifying Standard SAP Script Layouts
- Including Logos
  - SAP Script Utilities – Upload / Download

#### ❖ **Smart Forms**

- Smart Forms Introduction
- Graphics Management
- Style Maintenance
  - Paragraph Formats
  - Character Formats
- Writing print program and designing layouts
- OUTPUT Determination

#### ❖ **ALV Reports**

- ALV Reports Introduction
- ALV through Function Modules
- ALV Types (GRID/LIST/INTERACTIVE)

## ❖ Runtime Analysis & SQL Tracing

## ❖ Cross Applications

- Introduction to Distributed Environment
- Introduction to Cross Applications

## ❖ RFC

- Introduction to RFC
- Creating RFC Destination between 2 Systems
- Creating Remote Enabled Function Modules
- Creating program using Remote Enabled Function Modules

## ❖ ALE

- ALE Basics
- Overview of Outbound & Inbound Process
- Configuration Steps
- Define logical systems
- Assign client to logical system
- RFC destination
- Customer distribution model
- Creating Ports

## ❖ BAPIs

- BAPI Overview
- Creation of BAPI

## ❖ User Exits

- User Exits/Customer Exit Overview
- Types of User Exits
  - Field Exit
  - Screen Exit
  - Function Exit
  - Menu Exit

#### ❖ **BADIs**

- BADIs Overview
- Defining a BADI
- Implementing a BADI

#### ❖ **Miscellaneous Topics**

- Correction & Transport request (CTS)
- Transport Organizer
- Work Bench Request
- Release Objects
- SAP Memory & ABAP Memory
- Logical Database
- SD Flow
- MM Flow

#### ❖ **Overview of Advance Topics**

- Object Oriented ABAP Overview
- Class VS Interface
- SAP Business Workflow
- Use of workflow in industries
- EDI and IDOC



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