

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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