

ABAP Course Content

Unit-I

Introduction to ERP

- ❖ What is ERP?
- ❖ Why we need ERP?
- ❖ Advantages of ERP

Introduction to SAP architecture

- ❖ What is SAP?
- ❖ History of SAP?
- ❖ SAP R/2 architecture
- ❖ SAP R/3 architecture

Introduction to ABAP/4

- ❖ What is ABAP?
- ❖ Log on to SAP Environment
- ❖ Workbench tools

ABAP Dictionary Concepts

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

ABAP Programming Basics

- ❖ Data Types, Variables, Types, Operators, Expressions etc
- ❖ Conditional statements, Loops and termination statements
- ❖ String and Date operations and System fields
- ❖ 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
- ❖ Modularization (Subroutines, Function Modules, Macros and Includes)
- ❖ Field Symbols
- ❖ Debugging programs (Break Point, Watch points etc)
- ❖ Runtime Analysis, Performance Trace

Unit-II

Reports

- ❖ Classical Reports
- ❖ Classical Report Events
- ❖ Interactive report
- ❖ Interactive report events
- ❖ Control Level Commands (AT First, AT New etc)
- ❖ Selection Screen: Parameters
- ❖ Select –options and variants
- ❖ Hide, Read Line, Get cursor, Modify line etc., statements
- ❖ System fields of reports
- ❖ Logical Data Base (Designing, Events)
- ❖ SAP Query (User groups, Info Sets and Queries)
- ❖ ALV reporting

Unit-III

Transactions (Dialog Programs (or) Module pool programs)

- ❖ Transactions (Dialog Programs (or) Module pool 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)
- ❖ Sub screens
- ❖ Table Controls, Step loops and Tab strips

Unit-IV

BDC

- ❖ Files Formats
- ❖ Local Files (Upload, Download etc)
- ❖ Sequential Files (Open dataset, Read Dataset, Transfer etc.)
- ❖ Data Transfer Scenarios and methods
- ❖ BDC session method (Creating, Processing, Analyzing and Correction errors in Sessions)
- ❖ Call Transaction method (Options, Tracing errors and Correction)
- ❖ Recording Technique
- ❖ LSMW (Methods, Steps and Conversions rules etc.)

Unit-V

SAP Scripts

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

Smart Forms

- ❖ Smart form and Form Logic
- ❖ Calling a Form from print program
- ❖ Difference between SAP Script and Smart Forms

Adv. ABAP Concepts:

a) SAP Enhancements

- ❖ User Exits and Customer exits
- ❖ Implementing Function, Menu, Screen exits

b) BADIs (Business Add-Ins)

c) Object Oriented ABAP

- ❖ Introduction to Object-Oriented Programming
- ❖ Methods
- ❖ Syntax and Visibility
- ❖ Instance Methods and Static Methods
- ❖ Constructor
- ❖ Classes and Objects
- ❖ Components of a Class
- ❖ Defining Local Classes
- ❖ Defining global classes

Cross Applications

IDOCs (Intermediate Documents)

- ❖ 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
- ❖ Idoc Enhancements

RFC (Remote Function Calls)

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

<p>EDI (Electronic Data Interchange)</p> <ul style="list-style-type: none">❖ EDI processing setup❖ Defining ports and partner profiles❖ Message control for EDI❖ Partner profiles❖ Basic configuration❖ Application configuration❖ Outbound processing <p>BAPI (Business Application Programming Interface)</p> <ul style="list-style-type: none">❖ SAP Business Objects❖ Business Object Builder and BOR❖ Features and applications of BAPI❖ Creating Business Object types❖ Working with a standard BAPIs❖ Developing Custom BAPIs	<p>ALE (Application Link Enabling)</p> <ul style="list-style-type: none">❖ Distributed Systems❖ ALE Services and features❖ ALE Inbound and Outbound process❖ ALE Configuration (Logical systems, RFC Destination, Model view, Port, Partner Profiles etc)❖ ALE Distribution Scenarios❖ Transferring of Master Data
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