

SAP ABAP/CA

- **Introduction to ERP**
- **Introduction to SAP & R3 Architecture**
- **Introduction to ABAP/4**
 - What is ABAP? R/3 Repository
 - 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, Type Groups, Domains
 - Search helps
 - Search help Exits
 - Lock objects
 - Primary Key and Fore
 - Table Maintenance Generator
 - Table Events
- **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
- Dynamic Message Handlings

➤ **Selection Screens**

- Selection screen Introduction
- Parameter Statement. Selection-option 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
- Working with Standard Sorted and Hashed Internal Tables
- 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
- Macros
- 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/Transaction**

- MRP 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 Io1
 - ❖ 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
 - ❖ Steps Loops
 - ❖ Tab strip Controls
 - ❖ Sunscreens

➤ **Batch Data Communication**

- BDC Introduction. Recording
- BDC Methods
 - Call Transaction Methods. Session Methods
- 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
- Working with Mail, Secondary and Final Window
- Working with Different Node levels in Smart Forms

➤ **ALV Reports**

- ALV Scripts Introduction
- ALV through Function Modules
- ALV Types
- Tree ALV
- Hierarchy Sequential ALV
- LIST and GRID ALV. Object Oriented ALV
- Interactive ALV

➤ **Runtime Analysis & SQL Tracing**

- Introduction to Distributed Environment
- Introduction to Cross Applications

➤ **RFC**

- Introduction to RFC
- Synchronous Asynchronous And Transaction RFC
- Creating RFC Destination between 2 Systems
- Creating Remote Enabled Function Modules
- Creating Program using Remote Enabled Function Modules
- Differentiate Pass by value Pass by Reference

➤ **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

➤ **IDOCS**

- What is an Idoc?
- Types of Idocs
- Basic Idocs. Extension Idocs
- Creating Idocs. Message Types
- Assigning Idoc type to Message type
- Handling Standard Message Type and Idoc Type
- Enhancing an IDOC
- Distributing Master Data through Standard Idoc types
- Send whole copy & sending only the changes
- Idoc Filtering. Segment Filtering
- Reduced Message type
- Message Control Technique
- Writing Inbound and Outbound IDOC programs
- Exits handling in IDOC
- Extending IDOCs and developing programs

➤ **EDI**

- EDI Basics
- Difference between ALE & EDI
- Overview of Outbound & Inbound Process
- Configuration Steps. Port Creation
- Creation of Customer Distribution Model
- Activation of Change Pointers

➤ **BAPIS**

- BAPI Overview
- Introduction to BOR
- Creating BAPI from the Scratch
- Handling Standard BAPIS
- Extending BAPI's

- **Workflow**
 - What is workflow?
 - Overview of workflow
 - Configuration of Work flow
 - Work flow scenario Development
 - Working with single and multiple tasks
- **User Exits**
 - User Exits Overview
 - Types of User Exits
 - ❖ Field Exit. Screen Exit, Function Exit. Menu Exit
- **BADIs**
 - BADIs Overview
 - Defining a BADI
 - Implementing a BADI
 - Single implementation BADI
 - Multiple Implementation of BADI
 - Filter dependent BADI's
- **Enhancement Sport**
 - Concept of Enhancement Spots
 - Implicit Enhancement Spots
 - Explicit Enhancement Spots
- **BTE**
 - Concept of Events
 - Implementing business Transaction Events
- **OO-ABAP**
 - Object Oriented ABAP Overview
 - Defining a Class
 - Implementing a Class
 - Data Abstraction
 - Encapsulation
 - Inheritance
 - Polymorphism
 - Constructors and its visibility
 - Local classes and Global classes
 - Polymorphism
 - Interfaces, Defining and Implementing
 - Event Triggering and handling
 - ALV using OOPS
 - Converting local classes to global classes
 - Visibility of Methods in Global Classes

- Event Handler technique in Object oriented ABAP
 - Redefining methods in subclass
 - Final Classes and Methods
 - Abstract Classes and Methods
 - Demo on “Narrow Casting”
 - Binding in ABAP
 - Implementing Persistent Service using Transaction Service
 - Create a transaction for local class methods
 - Working with interfaces
 - Working with events
 - Enhancing a Standard Class
 - Working on Polymorphism (More details)
 - Working with import, export and change parameters of a class
 - Inserting data into the database table using Classes
 - Working with Constructor (More details)
 - Working with inheritance (More details)
 - Working with the keyword SUPER
- **Adobe Forms**
- Adobe Forms Over View
 - Adobe Forms Basic
 - Online and Offline forms
 - Print Forms
 - Interactive Adobe forms
- **Release Management Topics**
- Correction & Transport request (CTS)
 - Transport Organizer
 - Work Bench Request
 - Task Creation
 - Release Objects
- **HR - ABAP**
- HR ABAP Fundamentals
 - Components of HR Module
 - HR Technical Overview
 - Working with info types
 - Logical Database PCH and PAP
 - Time Constraint
 - Custom info type creation and Enhancement
 - Reporting methods