

Topics

Introduction to SAP

- General Introduction to ERP and SAP
- System Architecture
- System Landscape
- Client /Server Concept
- Work processes

Afternoon : (2 pm to 5 pm)

ABAP Data Dictionary

- Introduction to Data Dictionary and its functions
- Basic Objects of Data Dictionary and their relationships
- Domain
- Data Elements
- Tables
- Primary keys
- Table attributes
- Technical settings
- Foreign Keys
- Structures
- Views
- Database utility

Forenoon : (10 am to 1 pm)

ABAP Basics

- Introduction to ABAP Programming
- Data Handling
- Text elements
- Creating and Processing Internal Tables
- Include Programs
- Sub-routines
- Function modules
- Macros
- SQL Concepts in ABAP
- ABAP Open SQL/Native SQL Statements
- ABAP Basic Test

Afternoon : (2 pm to 5 pm)

ABAP Reports(Classical Reporting)

- Selection-screen parameters
- Select-Options
- Selection-Screen validation
- processing events in reports
- Formatting Events
- Control levels
- AT New
- At End

Forenoon : (10 am to 1 pm)

ABAP Reports (Interactive Reporting)

- Interactive Events
- Page header for Secondary lists
- Line selection and Interactive data retrieval
- important system fields for Interactive reporting
- Menu Painter
- GUI Interface

- Creating GUI Status
- Displaying additional data in Windows
- Handling Message
- Type-pools
- SUBMIT
- CALL TRANSACTION

Afternoon : (2 pm to 5 pm)

ABAP List Viewer (ALV)

- Displaying reports using ALV List Objects

Forenoon : (10 am to 1 pm)

Interfaces

- Handling of application and presentation server files
- Classical Batch Input
- Call Transaction
- FILE HANDLING

Afternoon : (2 pm to 5 pm)

- BDC Recording
- Legacy System Migration Workbench (LSMW)
- Uploading data into SAP using LSMW.

Forenoon : (10 am to 1 pm)

Dialog Programming / Transactions

- Dynpros
- ABAP Module Pools
- PBO and PAI Events
- Simple transaction
- Handling errors and issuing messages
- Automatic field checks and avoiding them
- On-INPUT
- ON-REQUEST
- CHAIN-ENDCHAIN
- Multiple screen transactions
- Introduction to screen flow
- SET SCREEN
- CALL SCREEN
- SCREEN Internal Table
- Sub-screens
- Table controls

SAP Script / Smart Forms

- Layout sets
- Layout set elements
- Pages
- Windows
- Page Windows
- Text elementss
- SAP Script Symbols
- Function modules related to SAP Script
- SAP Script control commands
- ADDRESS
- NEW-PAGE
- PROTECT
- PERFORM

- Standard texts
- INCLUDE texts
- SMART FORMS

Object Oriented Programming

- Objects
- Classes
- Types of Classes
- Inheritance
- Polymorphism
- Definition of local classes
- Implementation of local classes
- Global classes
- Interfaces
- Implementation of an Interface Instantiation of a class
- Exception handling in Classes (TRY ENDTRY sections)

User Exits / Enhancements

- Menu Exits
- Function Exits
- Field Exits

The following ABAP Workbench tools will be covered at relevant stages of the duration of the course.

- ABAP Debugger
- Runtime Analysis
- Code Inspector
- SQL Performance Trace

SAP's Distributed Environment – An Overview Cross Application Elements- An Overview

- IDOCs
- RFC
- ALE/EDI
- BAPI
- Workflow

IDOC (Intermediate Document)

- IDOC basics
- IDOC Architecture
- IDOC Structure
- Segments
- IDOC Types
- Extending IDOCS
- IDOC – An Interface to other SAP/ non – SAP systems
- Processing IDOCs
- Monitoring IDOCs

RFC(Remote Function Call)

- Creating RFC Destinations
- various types of RFC Destinations and the differences among them

- Role of RFC Destinations in communicating with multiple systems

ALE (Application Link Enabling)

- ALE Overview
- What is ALE? Why ALE?,
- Implementation of ALE between SAP systems
- Implementation of ALE between SAP and non-SAP systems
- Message types
- Logical Systems
- Partner Profiles
- Distribution Model
- How to Implement ALE? - A sample implementation Scenario.

BAPI (Business Application Programming Interface)

- Object Orientation – An Overview
- SAP's way of implementing Object Orientation – An overview
- Business Model in SAP
- SAP's
- Business Objects
- RFC Function modules
- Programming with BAPI
- Creation of an external Interfaces to access and update SAP's info.

Workflow

- Workflow Overview
- The need of Workflow
- Organizational Plan
- Roles
- Jobs
- Positions
- Assignments
- Workflow Builder – Graphic tool
- Workflow Tasks
- Single step and multi step Workflow tasks
- Workflow elements
- Workflow containers
- Event handling
- Triggering of workflows using various methods

SAP Project Implementation – An Overview

- Introduction to how an SAP Project is implemented
- the roles of various consultants (Basis, Functional, ABAP)
- Netweaver Technologies
- ABAP Objects
- BSPs and WebDynpros
- Adobe Forms

Duration: 17 Days

Hours: 10 am to 5 pm (1 – 2 pm Lunch break)