

SIEVE SOFTWARE

Flat. No: 307A,

3rd floor, adhitya enclave, nilgiri block, ameerpet, hyd. 8019242423,

7386977110...SAP-ABAP Course Contents

ERP INTRODUCTION

- ERP Fundamentals
- ERP Purpose
- ERP Products
- Introduction to SAP
- SAP Job Roles
- Role of ABAP Consultant

SAP R/3 ARCHITECTURE

- Different Tiers of Architecture
- Application Server Services
- R/3 Landscape
- ABAP Workbench

ABAP INTRODUCTION

- Repository and Dictionary Objects
- Client Concept
- ABAP Related Transaction Codes
- ABAP Programming Rules
- Data Types

ABAP STATEMENTS

- Write Statement Options
- Parameter Statements
- Types of Operators
- Package Creation
- IF Statement
- CASE Statement
- LOOP Statement
- Check Boxes and Radio Buttons

STRUCTURES

- Creating Structures
- Nested Structures
- Include Structures
- Move and Move –Corresponding Statements
- Retrieving Data from Database Using Selected-End Sheet
- Inserting Data into Database from a Structure

DICTIONARY OBJECTS

- Creation of Database Tables
- Data Elements
- Domains
- Client Dependent Tables
- Client Independent Tables
- Append and Include Structures
- Table Maintenance Generator
- Events at Table Level
- Table Buffering
- Primary and Secondary Indexes
- Pooled and Cluster Tables
- Lock Objects
- Type-Groups
- Table Types
- Search Helps
- Views

PACKAGES:

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

INTERNAL TABLES

- Introduction and Necessity of Internal Tables
- Classification of Internal Tables

- Creating Internal Tables
- Select Statement and its Options
- Select-Options
- Append
- Describe
- Read
- Sort

- Clear
- Refresh
- Free
- Insert
- Delete
- Modify
- Collect
- For all Entries

MESSAGE CLASSES

- Creating Message Classes
- Types of Messages
- Using Messages in Repository Objects

SELECTION SCREEN PROGRAMMING

- Creating Simple Blocks
- Creating Push Buttons and Labels
- Event Handling in Selection Screen
- Initialization Event
- At Selection –Screen Event
- At Selection –Screen Output Event
- At Selection –Screen on Value-Request
- At Selection –Screen on Help Request
- Creating Tabbed Blocks
- Creating Sub-Screens
- Creating Application Toolbar Push Buttons Using Function Keys
- Menu Painter

MODULARIZING TECHNIQUES

- Internal Subroutines
- External Subroutines
- Pass by Value Parameters
- Pass by Reference Parameters
- Passing Internal Tables as Parameters
- Include Programs
- Macros

FUNCTION MODULES

- Creating Function Groups
- Function Builder Interface
- Types of Parameters in Function Modules
- Exception Handling in Function Modules
- Optional and Default Parameters

REPORTS

- Classical Reports
- Control Break Reports
- AT-Events
- Interactive Reports
- At Line –Selection Event
- Top-of-Page Event
- Top-of-Page During Line Selection
- ABAP QUERY Reports
- Creating Logical Database and Usage
- ALV Reports (Simple ALV, Blocked ALV and Hierarchy ALV)

PERFORMANCE ANALYSIS

- Runtime Analysis
- SQL Trace

SQL

- Open and Native SQL Statements
- Creating Cursors
- Processing Cursors

MODULE POOL PROGRAMMING

- Introduction to Layout and Flow Logic
- Process After Input
- Process Before Output
- Drop Down List boxes

- Table Control
- Sub-Screens
- Tab Strip Control
- Displaying Pictures in Screens
- Process on Help Request
- Process on Value Request
- Automatic Field Validations
- Flow Logic Validations

FILE HANDLING

- File Transferring Techniques
- File Management on Presentation Server
- Upload and Download Function Modules
- File Management on Application Server
- File Opening Modes
 - INPUT Mode
 - OUTPUT Mode
 - UPDATE Mode
 - APPEND Mode
- Working With Datasets
 - OPEN Dataset
 - READ Dataset
 - CLOSE Dataset
 - SET Dataset
 - GET Dataset
 - Transfer

BDC (BATCH DATA COMMUNICATION)

- BDC Techniques
- Direct Input Method
- Call Transaction Method
- Error Handling in Call Transaction
- Session Method
- Error Handling in Session Process
- Background Job Scheduling
- Records Method

SAP SCRIPTS

- Designing Layouts
- Windows
- Using Elements
- Print Program Creation
- Passing Parameters to SAP Scripts
- Symbols in SAP Scripts
- Standard Symbols
- Program Symbols
- Text Symbols
- Image Uploading
- Displaying LOGO in SAP Scripts
- Creating Standard Texts
- Reading Standard Texts
- Modifying Standard Layouts

SMART FORMS

- Differences Between Scripts and Smart Forms
- SMART STYLES
- Generating Smart Forms Function Modules
- Displaying LOGO In Smart Form
- Passing Data to Smart Forms
- Conversion from Script to Smart forms

OO-ABAP

- **object oriented ABAP over view**
 - defining a class
 - Implementing a class
 - data abstraction, encapsulation
 - Inheritance
 - Polymorphism
 - Local classes and global classes
 - Polymorphism
 - Interfaces, defining and implementing
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- ALV using oops

Cross Application Concepts:

ALE, IDOCS
BAPI & BADI's
EDI and User Exits
RFC's & Enchantment

Project Objects:

- ❖ ABAP and OOP's ABAP Objects
- ❖ RICEF objects
- ❖ Project Explanation
- ❖ Support Project Tickets Using with Problem Management and Incident Management
- ❖ Implementation Project Scenario
- ❖ FAQ's on SAP ABAP
- ❖ Resume Preparation
- ❖ Mock Interview

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