

## SAP- ABAP (ADVANCED BUSINESS APPLICATION PROGRAMMING) - Course Contents

### Introduction

ERP Overview  
 Business Process in Enterprise  
 Various ERP Packages  
 About SAP  
 Features and advantages of  
 SAP Technical Features of SAP

### Architecture of R/3 System

Client/Server Architecture  
 Two-tier Vs Three tier  
 Environments Multi tier Architecture  
 Login & Logoff  
 Procedure Navigation  
 Introduction to SAP screen environment

### Components of ABAP Dictionary

Database Tables  
 Data Elements  
 Domains  
 Structures  
 Views: Database View, Projections  
 View, Help View, Maintenance View  
 Table Types  
 Type Groups  
 Search Help: Elementary And  
 Collective Lock Objects

### ABAP Programming

Introduction to ABAP Editor  
 ABAP Programming  
 Features Keywords  
 Data Types and Data  
 Objects Operators  
 String Handling  
 Conditional Statements and Looping  
 Structures  
 Field Symbols  
 ABAP Development Workbench

Package Builder

### ABAP Database Access

Open SQL  
 Definition & Creation of Internal  
 Tables Different Internal Table Types  
 Different Operations on Internal  
 Tables Control Level Processing  
 Events and Joins

### Modularization Techniques

Includes  
 Subroutines: Types, Pass by value,  
 pass by reference, pass by value and  
 reference  
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### Open SQL and Additional Topics

Different Select Statements  
 Different Write Formats  
 Message Class  
 Selection Screen Designing  
 Inter programming Communication

### List Generation Techniques

List Requirement &  
 Introduction Classical List  
 Interactive List  
 Abap List Viewer  
 Logical Database

### Performance Analysis

Reporting Standards  
 Extended Program  
 Check Debugger  
 Runtime Analysis  
 SQL Trace  
 Code Inspector  
 Advisable Select Statements  
 Performance Factors on Database  
 Tables and Internal Tables

### The Workbench Organizer Transport System

Change Request Version Management  
 Releasing Tasks and Releasing  
 Request Transport

### Dialog Programming

Introduction  
 Screen Painter  
 Menu Painter  
 Table Control  
 Tab strip Control  
 Field Validation  
 Calling Screen Sequence  
 Changing Screen Attributes Dynamically

### Data Migration Techniques

Requirement  
 Direct Input Method  
 Background  
 Processing Conversion  
 Interface Programming Using BDC Call  
 Transaction and Session Method  
 Recording Method  
 Data Sets (Application Server File  
 Handling )  
 Legacy System Migration Workbench  
 (LSMW)

### Smart Forms

Designing Custom Smart  
 forms Form Painter  
 Table Painter  
 Field List  
 Style Builder  
 Text Modules  
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### Overview of Interactive Forms by Adobe

#### Object Oriented ABAP

Introduction  
 Keywords  
 Class Builder  
 Objects  
 Local and Global Class Creation

Object Handling  
 Methods  
 Abstraction, Encapsulation  
 Inheritance, Polymorphism  
 Event Handling

#### Interface

#### Enhancements

Requirements  
 SMOD / CMOD  
 Function Exit  
 Menu Exit  
 Screen Exit  
 Text Enhancement  
 Table Enhancement

#### Business Add Ins

Introduction to BADIs  
 Difference between Customer Exists  
 and BADIs  
 Implementation of BADIs  
 Function Implementation  
 Screen Implementation  
 Menu Implementation  
 Definition of new BadIs

### CROSS APPLICATIONS

#### Introduction to Distributed Database Environment

Introduction to Cross Application  
 Architecture  
 Preparing RFC (Remote Function  
 Calling) Destinations

Develop and call Remote Functions  
 Working with RFC function modules

#### IDOC Interface

Basics  
 Architecture  
 Segment Creation  
 Idoc Creation  
 Logical Messages

Processing  
 Idoc Monitoring  
 Documentation  
 Need in ALE, EDI and  
 BAPI Programming Idoc's  
 Customer Modifications to the Idoc  
 Interface  
 Extending and Developing a Basic  
 IDOC Type  
 Programming in the IDoc Interface  
 Customizing the Interface for New or  
 Extended IDocs.

### Remote Function Call (RFC)

Introduction  
 Preparing RFC Destinations  
 Develop and call Remote  
 Functions Types of RFC  
 Synchronous RFC  
 Asynchronous RFC  
 Transactional RFC.

### Application Link Enabling (ALE)

Introduction,  
 Concepts of data and process  
 distribution  
 Reasons for data and process  
 distribution  
 ALE Concepts and  
 Features ALE Technology  
 ALE Components for Outbound  
 Process ALE Components for Inbound  
 Process Configuring ALE  
 Testing ALE

### Electronic Data Interchange (EDI)

Introduction,  
 EDI Standards,  
 History of EDI,  
 EDI Benefits  
 Configuring and Testing EDI in SAP

### Business Application Programming Interface (BAPI)

Business Framework Architecture

Introduction to BOR,  
 Creating BAPI, R/3 to R/3, VB to R/3  
 using Bapi, Java to R/3 using Bapi.  
 Reporting Using Bapi  
 Data Upload Using Bapi Structures  
 Working with BAPI Explorer