

SAP-ABAP

Curriculum

INTRODUCTION OF ERP/SAP WORLD

- Introduction to ERP (ENTERPRISE RESOURCE PLANNING)
- ERP Specification
- ERP System
- Types of ERP Packages

ERP OVERVIEW

- Introduction to SAP

(SYSTEM APPLICATION & PRODUCTS IN DATA PROCESSING)

- SAP Vs Non SAP Products

SAP OVERVIEW

Beginner Level

Phase 1: 3 hours

STARTING WITH SAP BASICS

- Logical View
- Software Oriented View
- Advantages of Multi-tier Architecture
- Presentation Servers
- Application Servers
- Database Servers
- Work Process
- Roll Area

User Context Area SAP R/3 ARCHITECTURE

- Predefined Types
- Complex types
- Reference Types

INTRODUCTION TO ABAP/4

DATA TYPES

STARTING WITH ABAP BASICS

FIELD SYMBOLS

DECISION AND CONTROL STRUCTURES

- Database Tables
- Data Elements

- Domain

COMPONENTS OF ABAP DICTIONARY PLAY WITH DATABASE

- Database View
- Projection View
- Maintenance View

VIEWS

- Include
- Append

STRUCTURES

- Type-Pools

DATA TYPES

- Elementary Search Help
- Collective Search Help

SEARCH HELPS

- Shared Lock
- Exclusive, Cumulative
- Exclusive, not Cumulative

Phase 2: 8 hours

- Types of Internal Table
- Creating and Processing of Internal Tables

INTERNAL TABLES

- Append
- Append lines
- Insert
- Insert lines
- Move
- Sort
- Read Loop at/ Endloop
- Free
- Clear
- Refresh
- Delete
- Append sorted by
- Modify
- Collect, etc...

STATEMENTS TO ACCESS INTERNAL TABLE PROGRAMMING

- At first/endat
- At last /endat
- At new /endat

CONTROL BREAK EVENTS

- On change of.... /Endon
- Sum
- Select Statement
- Using the Select Statement for Single Line
- Using the Select Statement for Several Lines
- Using the Select Statement for Internal Tables, etc...
- Tables / Internal Table Operations, etc.

DATA RETRIEVAL

- Inner Join
- Outer Join

JOINS

Phase 3: 14 hours

- Macro
- Include Programs
- Sub Routine
- Function Module

MODULARIZATION AND INTER PROGRAMMING COMMUNICATION REPORTING OR LIST

- Classical Reports
- Interactive Reports

REPORTS AND EVENT HANDLING

- Line-Size

REPORT STATEMENTS

- Line-Count
- Message and Message Classes
- Page Heading
- Report Comment Statement
- No Standard Page Heading, etc...
- Parameters

- Select-options

SELECTION SCREENS

CREATING REPORTS TRANSACTIONS

- INITIALIZATION
- AT SELECTION-SCREEN
- START-OF-SELECTION
- END-OF-SELECTION
- TOP-OF-PAGE
- END-OF-PAGE
- AT LINE-SELECTION
- TOP-OF-PAGE DURING LINE-SELECTION
- SET PF-STATUS
- AT USER-COMMAND, etc.

REPORT EVENTS

Phase 4: 6 hours

- Open SQL

DATABASES ACCESS

- Native SQL

SAP/ABAP QUERY

- INFOSET Generation
- User Group Generation
- Query Generation Single Node
- Multiple Node

QUICK VIEWER

DIALOGS OR SCREENS

USER DIALOGS (SCREEN PAINTER)

SCREEN TYPES

- Normal Screen
- Sub Screens
- Selection Screen

SCREEN COMPONENTS

- Radio Buttons
- Input - Output Buttons
- Push Buttons
- Labels
- Flow Logic

- Layout
- Table Control
- Tab Strip
- Transactions Code, etc...

Intermediary Level

Phase 1: 4 hours

Phase 2 : 10 hours

SAP FORM PAINTER

- Introduction
- Layout Sets
- Header
- Pages
- Window
- Page Window
- Paragraph Format
- Character Format, etc...

SAPSCRIPTS

MENU PAINTER

- Create GUI Status
- Create a Menu Bar for a Screen
- Define Functions Keys Create
- Application Toolbar for a Screen, etc.

DATA CONVERSION TECHNICAL & FUNCTIONAL

- Direct Method
- Call Transaction Method
- Session Method

BATCH DATA COMMUNICATION (BDC)

DATA CONVERSION TECHNIQUES

- UPLOAD
- WS_UPLOAD
- GUI_UPLOAD, etc...

FUNCTIONS CALLING

LEGACY SYSTEM MIGRATION WORKBENCH (LSMW)

Phase 2 : 10 hours

Phase 3 : 8 hours

- Introduction
- Layout

- Form Attributes
- Form Interface
- Global Definition
- Page Window
- Styles, etc...

SMART FORMS

DEBUGGING

INTRODUCTION TO

CROSS APPLICATIONS CROSS APPLICATION OVERVIEW

- USER EXITS (Enhancement)
- BADI's
- ALV (ABAP List Viewer)
- Use of BAPI Implementation
- RFC (Remote Function Calling)
- IDOC (Intermediate Documents)
- ALE (Application Link Enabling)
- WORK FLOW of SD (SALES AND DISTRIBUTION)
- WORK FLOW of MM (MATERIAL MANAGEMENT)
- WORK FLOW of FICO (FINANCIAL AND CONTROLLING)
- WORK FLOW of PP (PRODUCTION PLANING)
- WORK FLOW of HR (HUMAN RESOURCE)

WORKFLOW

Extra Level

Phase 1: 18 hours

Phase 2 : 10 hours

PROJECT ASSIGNMENT & FULL LIFE CYCLE IMPLEMENTATION PROGRAM

- LIFE CYCLE IMPLEMENTATION OF SAP
- PROJECT AND ASSIGNMENT
- Business Blue print
- Gap Analysis
- Business Process Re-engineering

POST IMPLEMENTATION

- Project Start
- Analysis
- Design
- Design Freeze / Client Sign-Off
- Development Testing

- Implementation
- Project Completion
- Training
- Customization
- Support

**PROJECT PLANNING
MAINTENANCE AND SUPPORT
ROLES AND RESPONSIBILITIES**

- Functional Requirements
- Technical Requirements



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