

ABAP

Prerequisite:

Knowledge of Structured Query Language (SQL) for database access.

Course Outline

Section - A Introduction to SAP ABAP

- 1.1. What is SAP R/3
- 1.2. SAP R 3 architecture and where ABAP fits in

- 2.1. ABAP Development Workbench Tools
- 2.2. Object Navigator
- 2.3. Workbench Organizer
- 2.4. Data Dictionary
- 2.5. Menu Painter
- 2.6. Screen Painter

Section - B ABAP Dictionary

3.1 Tables

- Two Level Domain concept
- Technical Setting
- Table Access performance
- Input Checks

3.2 Views

3.3 Search Help

3.4 Lock Objects

Section - C ABAP Programming Techniques

4.1. Reports Statement

- Line Size
- Line-count
- Message
- Page Heading
- Report Comment Section

4.2 Declarations

- Tables
- Includes
- Variables (Data Types and Data Objects)
- Structures
- Internal Table
- Constants

4.3. Selection Screen / Input Fields



- Parameters
- Select - Options
- Section Screen Formatting

4.4 Program Events

- Initialization
- Start of Selection and End of Selection
- At Selection Screen
- At Line Selection
- At User - Command

4.5 Formatting and Displaying Data

- Event for Page Headers and Footers
- Display Options

5.1 Internal Table Operations

5.2 Subroutines

5.3 Function Group and Modules

5.4. Logical Database

6.1. Variants

6.2. Create Transactions for Reports

Section - D Data Transfer Methods

7.1. Overview of Data Transfer

7.2. External Data Access

- Data Analysis and data files
- Upload and download data from / to presentation server < application to from data download>

7.3. Standard data transfer program

- Direct Input Method
- BDC program
- Call transaction Program

7.4. Transaction Recorder

7.5. Data Transfer Workbench Concepts

7.6. Legacy System Migration Workbench (LSMW)

7.7. BAPIs (Introduction as a data transfer method)

Section - E Dialog Programming

8.1. Introduction to Dialog Programming

8.2. Screen Painter

8.3. Screen Elements for Input/Output



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- 9.1. Subscreens
- 9.2. Tabstrips
- 9.3. Table Controls

- 10.1. Menu Painter
- 10.2. Create GUI Status & Title Bar
- 10.3. Create Menu Bar for a Screen
- 10.4. Define function Keys
- 10.5. Create Application Tool Bar for a Screen
- 11.1. Screen Flow Logic
- 11.2. Understand screen flow logic
- 11.3. Create Process After Input and Process before Output modules
- 11.4. Use message for error processing
- 11.5. Call list processing within a transaction

Section - F Performance Tuning

- 12.1. Types of Program Analysis
- 12.2. Static Checks
- 12.3. Dynamic Checks and Short Dump Analysis

- 13.1. ABAP Debugger
- 13.2. Breakpoints in Programs
- 13.3. Breakpoints in the Debugger
- 13.4. Watchpoints

- 14.1. Performance Tools
- 14.2. Runtime Analysis
- 14.3. SQL Trace

Section - G List Creation

- 15.1. Introduction
- 15.2. Quick Viewer
- 15.3. SAP Query

- Understand core functionality of SAP R/3 ABAP Query.
- Explain the relationship between a user group, info set and query report.
- Utilize the appropriate user groups and Info Sets to develop Queries.
- Create List.

- 15.4. Saving Lists and Background Processing