



SAP ABAP

REAL TIME PROJECT

i3 IT Solutionz Is Providing **SAP ABAP** Training on **ECC** and on **HANA** By Faculty **Mr. Anil**, Having **19+ Years of Experience**. With His Subject Knowledge and Training, The Aspirant Candidates Can Look Forward to Work on **Real Time Scenarios**. He is One of The Leading Faculty in **Hyderabad** in **SAP ABAP** Training

Faculty Overview

Mr. Anil
19+ Years of SAP Industry Experience

Course Duration

3 Months

SAP Version

ECC 6.0 with Enhancement Package 7 & S/4 HANA

Projects

**Real Time Implementation Projects and Will Educate the Scholars,
How To Handle Support Ticket and Enhancements**

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How Exceptional **i3 IT SOLUTIONZ** Compare with Other Institutes. This Course Makes the Scholar a Highly Skilled Technical Resource That Can Compete with The Real Time Market. The Course Content Provided Has Been Designed Such That None of The Other Institutes Can Compete With **i3 IT SOLUTIONZ**.

1. Introduction to SAP

- What is Sap R/2
- Purpose of R/3
- Sap R/3 Architecture

2. Introduction to ABAP Programming

- ABAP Statements
- Statements & Keywords
- ABAP Data Types
- Introduction To ABAP Program

3. Control Structures

A. Branching

- If-Else/Elseif-Endif
- Case-When-End case

B. Looping

- Un-Conditional (Do-ENDDDO)
- Conditional (While-End while)

4. Strings

- String Operations





5. ABAP Data Dictionary

- Purpose
- Types Of Tables
- Technical Requirements to Create the Table
- Data Types
- Domain
- Data Element
- Structures
 - Include Structure
 - Append Structure
- Table Type
- Type Group
- Steps To Create the Table
- Foreign Key Relationship
- Views
- Projection View
 - Data Base View
 - Maintenance View
 - Help View
- Lock Objects
 - Lock Modes
 - Lock Modules
- Search Helps
 - Elementary Search Help
 - Collective Search Help
- TMG (Table Maintenance Generator)
- Table Debugging





6. Internal Tables

- Introduction & Purpose of Internal Tables
- Declaring Internal Tables
- Types Of Internal Tables
 - Standard Internal Table
 - Sorted Internal Table
 - Hashed Internal Table
- Control Break Statements

7. Open SQL

- Types Of Commands
- DDL, DML, DCL Commands

8. ABAP Debugger

- Purpose
- Features
- Break Points
- Watch Points

9. Modularization Techniques

- Introduction
- Include Programs
- Macros
- Subroutines
- Function Modules
 - Function Group Creation
 - Types of Function Modules



10. Reports

- Introduction & Purpose
- Types Of Reports
- Classical Events in Detail
 - Initialization
 - At Selection Screen
 - Start-Of-Selection
 - End-Of-Selection
 - Top-Of-Page
 - End-Of-Page
- Interactive Events in Detail
 - At Line Selection
 - At User Command
 - Top Of Page During Line Selection
- Joins
- For All Entries
- Hide
- Get Cursor
- Hotspot

11 ALV (ABAP List Viewer)

- Classical ALV
- Field Catalog
- Totals, Sub Totals and Sorting
- Interactive ALV
- Blocked ALV
- Hierarchal ALV
- Events In ALV





12. Batch Data Communication (BDC)

- Overview Of BDC
- Recording In BDC Programming
- Types Of BDC Programming
- Call Transaction in Detail
- Error Handling in Call Transaction
- Session Method In Detail

13. LSMW

14. Sap Scripts

- Introduction And Purpose
- Sap Script Components
- Creation Of Forms
- Single And Many Forms

15. Smart Forms

- Features Of Smart Forms
- Types Of Windows
 - Secondary Window
 - Main Window
 - Copies Window
 - Final Window
- Types Of Text Elements
- Table Painter
- Calculations In Table Painter
- Program Lines
- Creation Of Barcode



16. Transaction/Dialog/Module Pool Programming

- Introduction And Purpose
- Screen Painter, Menu Painter
- Flow Logic & Flow Logic Keywords
- Sub Screens & Sub Screen Areas
- Tab Strip Control
- Table Control

17. BAPI (Business Application Programming Interface)

- Introduction To BAPI
- Standard BAPI
- Custom BAPI

18. Enhancement

A. Exits

- Finding Exits
- Implementing Exits
- Function Module Exits
- Screen Exit
- Menu Exit

B. Badis

- Features Of Badis
- Differences Between Badis & Exits
- Implementation Of Badis

C. Enhancement Spots

- Implicit, Explicit Spots
- Function Group Enhancement
- Class Enhancement.





Object Oriented ABAP

1. What Is Object Orientation?

- Introduction
- Advantages Of Oops
- Data Abstraction
- Encapsulation
- Interface
- Inheritance
- Polymorphism

2. Encapsulation and Abstraction

- Class Definition
- Class Implementation
- Class Creation Globally and Locally

3. Interfaces

- Interface Definition
- Implementation
- Interface Creation Globally and Locally

4. Inheritance

- Super Class and Sub Class
- Types Of Inheritances
- Inheritance Creation Globally and Locally

5. Events

- Definition
- Triggering
- Handling



6. Miscellaneous Concepts

- Constructor
- Abstract Class
- Friend Class
- Persistent Class
- Singleton Class

8. Alv Using Object Oriented

- Simple Alv
- Interactive Alv
- Adding Custom Buttons
- Coloring Rows, Columns, Cells
- Events In Oops Alv

IT SOLUTIONZ

Integrations Implementations Interfaces



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ABAP for HANA

Introduction

- SAP HANA Basics and Technical Concepts
- Introduction to SAP HANA Studio
- Introduction to ABAP Development Tools (ADT)
- Introduction to the EPM Sample Application

Taking ABAP To SAP HANA

- ABAP Database Connectivity: Typical Code
- Native SQL Pitfalls
- Consumption of an SAP HANA Database Procedure With ADBC
- Consumption of an ABAP Managed Database Procedure
- SAP HANA a Secondary Data Base-Access Via Open SQL
- Preparing for SAP HANA
- Guided Performance Analysis
- Performance Roles and Guidelines for SAP HANA
- Joins Using ADBC

Code to data with SAP HANA as Secondary Data base

- Classical Open SQL and its Limitations
- ABAP Data Base Connectivity (ADBC)
- Native SQL Syntax
- Working with Views in SAP HANA Studio
- SAP HANA Information Views.
 - (A) Attribute View.
 - (B) Analytical View.
 - (C) Calculation View.



- Normal Calculation View
- Calculation View Using Joins
- Usage Of Measures and Dimensions.
- Consuming SAP HANA View in Native SQL
- Calling SAP HANA Views in ABAP
- Working with Data Base Procedures in SAP HANA Studio
- Calling SAP HANA Procedures in ABAP

Recent Open SQL Enhancements

- What is Open SQL Demo
- What's New in Open SQL
- Inline Declarations
 - (A) Host Variables.
 - (B) Guest Variables.
- Expressions
- Demo
- Conditional Expression
- Working With Constants Using New Open SQL.
- Working With Parameters Using New Open SQL.
- Working With Index Using New Open SQL.

Optimizing ABAP on Primary Database SAP HANA

- New Open SQL in ABAP Using Different Functionalities
- Core Data Services in ABAP
 - Simple CDS View
 - CDS View with Single Parameters
 - CDS View with Multiple Parameters
 - CDS View with Joins



- CDS View with Associations
- CDS View with Table Functions
- CDS Extended View
- CDS Annotations.

Using ABAP-Managed Database Procedures

- **ABAP-Managed Database Procedures**
 - Introduction of AMDPS
 - Demo
 - Class Definition
 - Class Implementation
 - Consumption and Artifact Creation
- Debugging ABAP-Managed Database Procedures

SAP HANA Proxy Objects

- Accessing SAP HANA Views in ABAP Dictionary External Views
- Transport Of SAP HANA Objects
 - HTC (HANA Transport Container)
 - HTA (HANA Transport Container for ABAP)
- Calling SAP HANA Procedures Via ABAP Database Procedure Proxies
- CRUD Operations in O Data Services.

Advanced Topics

- Using SAP HANA Full Text Search
- ABAP List Viewer (ALV) With Integrated Access To SAP

