



TECHNOPAD

SAP TRAINING | LIVE PROJECTS | PLACEMENT SUPPORT

SAP ABAP BROCHURE

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About Us.

 Techno Pad

Technopad is a leading SAP Training Institute dedicated to empowering students and professionals with the skills required to excel in today's competitive digital world. With an unwavering focus on industry-relevant training, hands-on experience, and career advancement, we bridge the gap between academic learning and real-time implementation. Our mission is to produce SAP consultants who are confident, job-ready, and globally competitive.

At Technopad, we offer comprehensive SAP programs across both technical and functional modules including SAP FICO, MM, SD, HCM, ABAP, Basis, PP, SuccessFactors, PM, and more. Every program is designed and delivered by real-time SAP experts with years of industry experience, ensuring learners gain practical knowledge aligned with real corporate scenarios.

We believe learning SAP goes beyond theory — which is why our training includes live server access, implementation projects, interview preparation, and dedicated placement assistance. The result: every learner is trained not just to understand SAP, but to perform like a professional from day one in the corporate world.



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+91 95813 36333



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Flat # 202, 2nd Floor, Sri Swathi Anukar Complex,
Beside Aditya Trade Centre,
Satyam Theatre Rd, opposite
Lane of, Ameerpet,
Hyderabad, Telangana -
500016



**Course Duration
4 Months**



**Course Fees
25000/-**



**Course Content
BELOW**



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-ENDCASE

B. Looping

- UN-Conditional(DO-ENDDO)
- Conditional(WHILE-ENDWHILE)

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
 - 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
 - Hierarchical 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. Misllaneous 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

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.
- Attribute view.
- Analytical view.
- 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
- Host Variables.
- 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 data base 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-ManagedDatabase Procedures

SAP HANA Proxy Objects

- Accessing SAP HANA Views in ABAP Dictionary External Views
- Transport of SAP HANA Objects
- HTC(HANA Transport Container)
- HTA(HANATransport 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



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