# Certified Program in SAP ABAP
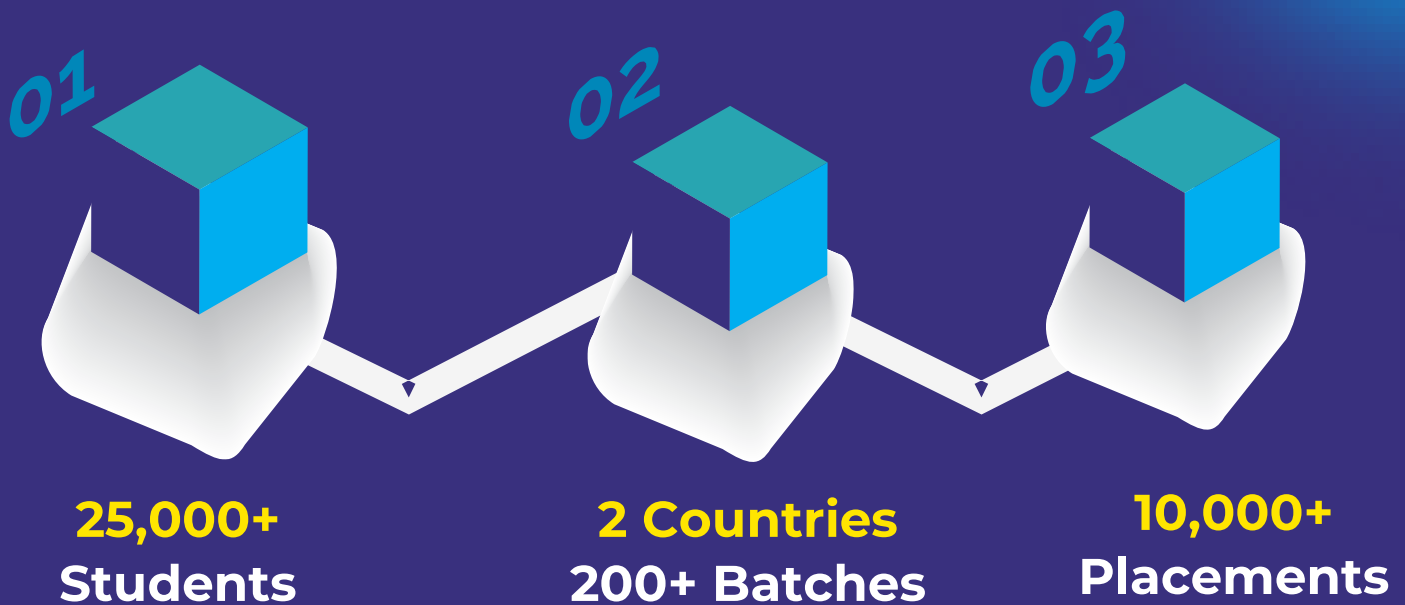
## Online Training | Self Placed | Corporate Training

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# Learning Pathway

01

02

03

**25,000+**
**Students**

**2 Countries**
**200+ Batches**

**10,000+**
**Placements**

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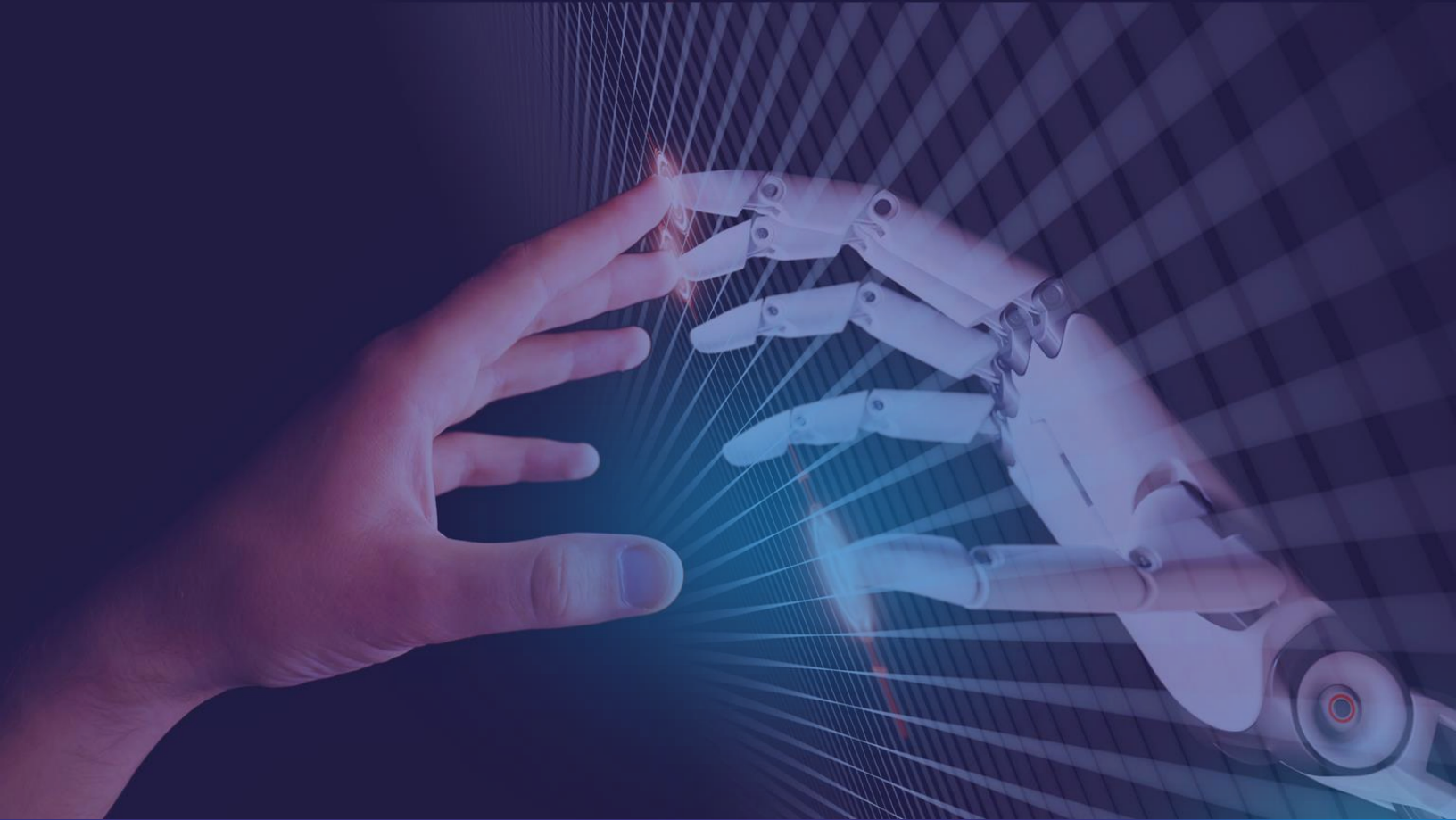
# High Rated & Recommended Institute

**4.8**
★★★★☆

**4.5**
★★★★☆

**4.5**
★★★★☆

Reviews have become an integral part of our everyday lives, shaping our experiences and guiding our decisions. From helping customers make informed choices to empowering businesses to build trust and credibility, reviews play a crucial role in the modern marketplace. By embracing reviews as a tool for transparency, authenticity, and growth, both buyers and businesses alike can reap the benefits of this powerful phenomenon.

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# FAQ'S ——

- ## DURATION

  Mon – Sat, Daily 1Hr. + 2 Months + Including Real Time Project

- ## CERTIFICATIONS

  After completion of the training, course completion certificate issued from Tech Leads IT

- ## ELIGIBILITY

  Any Graduate

- ## APPLICATION ACCESS

  3 Months

- ## INTERVIEW QUESTIONS

  We have predefined set of Interview Questions & Answers

- ## AVG PACKAGES

  2.4-5 Lakh p.a. (Fresher) | 5-30 Lakh p.a. (Experienced) may vary depending on their experience

## LEARNING PORTAL ACCESS - 1 Year

Till 1 year can attend 'N' number of batches Till 1 year can access daily live class recordings from our portal

- ## PLACEMENTS

  We are associated with Large to small MNC companies to provide placements to our top performed students

- ## SAP CERTIFICATION

  Will help you to clear the SAP Certification

- ## RESUME HELP

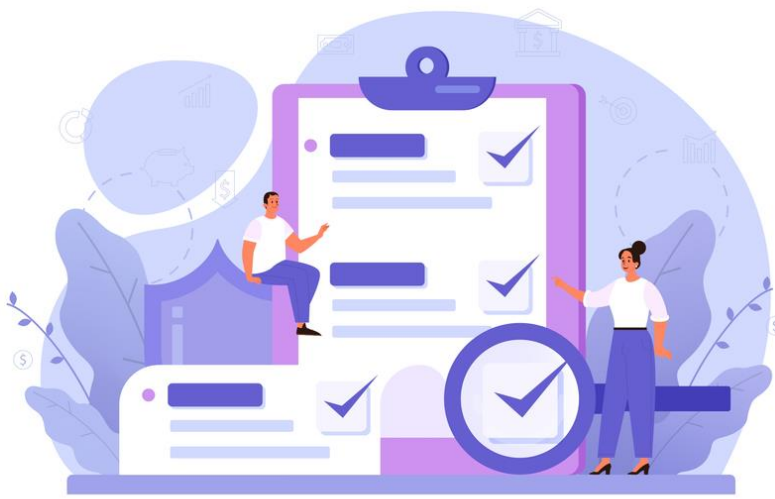  Will provide you sample resume templates and helps you with resume preparation

- ## COURSE FEE

  25,000/- INR

- ## PRE REQUISITE

  There are no pre-requisites to learn SAP ABAP

- ## TRAINER DETAILS

  Real-Time Trainer
  SAP – 25+ Batches completed

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# Key Highlights

**Training by Real Time Experts**

**Hands on Training**

**Material, Case Studies & Assignments**

**One-On-One with Industry Mentors**

**Doubt Clarification Sessions**

**Limited Strength**

**Dedicated Student Manager**

**Resume & Interview Prep Guidance**

**Course is curated by subject matter experts**

**100% Assured Placement Assistance**

**Mock-Up Interview Sessions**

**Real-Time Projects**

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# Certified SAP ABAP (Advanced Business Application Programming)

## BASIC TO ADVANCED TRAINING

**14+**
Modules

**60+**
Hours Training

**5+**
Assessments

## We are making it a standout choice among all offerings in India.

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# SAP ABAP
# Course Content Modules

1. **Basic concepts of ERP**

2. **Basics of HANA**

3. **Basics of ABAP Programming**

4. **Classical Reports**

5. **Modularization and ALV Reports**

6. **Forms**

7. **Basic OO Concepts**

8. **ALV report using OO concept**

9. **Migration**

10. **Enhancements**

11. **Transport Management & Development guidelines**

12. **SAP Notes**

13. **Training Tools**

14. **Fiori/UI and OData**

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## 1. Basic concepts of ERP

☑ **ERP Overview and Introduction to SAP**

- » Introduction
- » Explain SAP
- » installation of required Tools
- » What is ERP
- » Types of ERP
- » What is SAP
- » Modules of SAP

☑ **SAP R/3 - System Architecture**

- » Concept of R-3 (3 Tier Architecture)
- » Concept of work process and LUW

☑ **Introduction to ABAP**

- » SAP Screen
- » T-Code Concept
- » Concept of header and item data
- » Concept of Master and transactional data
- » Concept of RICEFW

## 2. Basics of HANA

✓ Introduction to HANA

» Introduction to HANA

✓ HANA Studio and ADT

» Introduction to HANA studio/ Eclipse and ADT

## 3. Basics of ABAP Programming

✓ Getting started with ABAP programming

» Create ABAP Program -"Hello world" program in ABAPTR and Package concepts (high level)Data declaration and predefined types in ABAP

» ABAP Editor features - syntax check, exteded program check, Code inspector

» Difference b/w custom programming languages & SAP ABAP

» Exercise :  Use Variables, WRITE statement and Create a Calculator

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# Introduction to ABAP programming

- » Arithmetic operations
- » System Variables
- » string operations
- » IF statement
- » Case Statement
- » Do-Endo Statement
- » While Statement
- » Message Statement

# Debugging

- » Debugging
- » ATC demo
- » Loop termination
- » Exercise : Add Number of Days to a Date
- » Exercise : part 1: Print 1 to 20 numbers
- » Exercise : part 2 : Print 1 to 20 numbers and
- » Use Debugger

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## ✅ ATC Check

» Execute ABAP Test Cockpit ( ATC ) and fix errors

» Selection Screen

» ABAP Events

» Calculate the Squares of Whole Numbers

» Add selection screen to Calculator Program

## ✅ Data Dictionary

» About Data Dictionary

» Standard Data Types

» Data Object

» Data Element

» Domain

» Ex. Create domain and data element

» Structures and table types

» Types of Tables

» Table Creation

» Exercise:  ABAP Dictionary Search

» Exercise:  Create Basic ABAP Dictionary Object

» Type Pools

» Views and search helps

» Foreign key

» Append and include structures

- » Lock objects + exercise
- » Exercise : Create Table Indexes
- » Create search Help & View tables with Data Browser

✔ Introduction to Basic Modules of SAP

- » Introduction to Basic modules of SAP (SD,MM & FI)
- » Basic flow, important tables/fields/ master data in  SD module
- » Basic flow, important tables/fields/master data in  FI module and  Demo videos (reference) for module1

## 4. Classical Reports

✔ Reports-Classical

- » Introduction to open SQL (Select Statement)
- » DB operations - Insert, Modify etc.
- » Types of Internal Tables
- » Declaration
- » Populating
- » Exercise : Create list of customers

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- » Processing (Read, Delete, Update)
- » Sorting
- » Control Break statements
- » Exercise : Modify internal tables
- » Joins & subqueries
- » Exercise : Using fully all entries
- » Additional Advanced ABAP and SQL syntax
- » Using operators, other syntax of Open SQL
- » Exercise : Write advanced open SQL

## 5. Modularization and ALV Reports

☑ Modelling

- » Introduction to Modelling and external
- » views without hands-on
- » Introduction to Modelling and external views

☑ CDS views

- » CDS views with Hands-on
- » Exercise : Create CDS views
- » Exercise : Create CDS view and consume in
- » ABAP report

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- ✅ **Subroutines**
  - » Exercise :  Use a Subquery and Inner Join
  - » Pass Variables and Internal Table to a Subroutine

- ✅ **Modularization - Function Modules**
  - » Basic Field Mapping: Drag & Drop
  - » Definition of Function Module & Types
  - » Function Group
  - » Function Library (Where Use)
  - » Testing of Function Module
  - » Creation Of Function Module
  - » Calling a Function Module
  - » Exercise :  Use a Function Module & Create Function Group and Function Group Modules

- ✅ **BAPI**
  - » Using BAPI in ABAP report
  - » Exercise :  Use BAPI in report

- ✅ **ALV Report**
  - » Simple ALV Reports
  - » Exercise :  Use ALV for output display

- ✅ Interactive ALV Report
- ✅ Performance Tuning and Lock Object
  - » Performance Tuning
  - » Exercise:  Check Your Report Program
  - » Usage of Lock object
  - » Exercise:  Write a Program using Lock object
- ✅ Background Jobs
  - Exercise:  Create a Background Job,
  - » Exercise:  Create a Multi-Step Background Job &
    Exercise:  Create Two Background Jobs

## 6. Forms

- ✅ Smart forms
  - » Overview (forms and scripts)
  - » Character format
  - » Paragraph format
  - » Pages
  - » Windows
  - » Page Windows
  - » Smart form Program
  - » Standard Text, style builder, Text Modules

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✅ **Adobe Forms**

» Automated Introduction to Adobe Forms
» Bulk Recovery

» Exercise: Create simple Adobe form

## 7. Basic OO Concepts

✅ Object Oriented Programming

✅ OO Concepts in ABAP

» Introduction to Classes, Components, Visibility Sections

» Types of Attributes, Types of Methods, Method Constructor

» Exercise: Write a Program Using Local Class.

» Global Class Creation

» Exercise: Create and Use Global Class

» Constructor Method

» Exercise: Create a class using instance and static methods

» Exercise: Define and Implement Instance Constructor

✅ Exceptions

» Class-based Exceptions

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- ✅ Advanced Concepts of OO
  - » Abstraction
  - » Inheritance
- ✅ Unit Testing
  - » Test Class for Unit Testing
  - » Exercise on unit testing with ABAP UNIT

## 8. ALV report using OO concept

- ✅ ALV OOPS
  - » Exercise : Write ALV report using OO concept
- ✅ Events in OO ABAP
  - » Events, Event handler methods
  - » Interactive ALV using OOPS
  - » Exercise: Write ALV report using OO concept & handle events
- ✅ ALV-IDA
  - » Simple ALV-IDA using table and CDS views
  - » Exercise - ALV IDA
- ✅ AMDP
  - » Limitations of CDS view, Creating AMDP

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## 9. Migration

✅ Migrations

» LTMC + LTMom - Introduction + Basic hands-on

» Migrating ECC programs to HANA - error analysis tools

» Exercise : LTMC using standard FM, Standard migration object Conversion Rule

» Migration of ECC Object to S4HANA

## 10. Enhancements

✅ Overview of Enhancements

» Customer Exit

✅ Enhancement Implementation Techniques

» BADI Overview

» Exercise: Find a proper BADI create implementation

✅ Enhancement Framework

» Introduction to Enhancement Point

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# 11. Transport Management & Development guidelines

✅ Development Guidelines

✅ HANA AMDP

>> Creation

✅ Code Quality

>> How peer review works

✅ Transport Management System

✅ SAP Version

>> Additional content to add individual objects in TR to be added

>> TR release(deployment), version management

✅ Deployment

>> video demo of transport import (to a target environment)

>> Exercise: TR release(deployment), version management

>> ChaRM and non-ChaRm

✅ Application Security

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## 12. Training Tools

- ✅ ACRTS FOR SAP
  - » ACRTS
  - » Along with ACRTS, use ATC check with variants
  - » Exercise : Review your program using ACRTS
- ✅ myconcerto/ARTL For SAP
  - » ARTL
- ✅ ADM Methods
  - » ADM for SAP
  - » Exercise : Work with Training Delivery Methods
- ✅ Module pool
  - » Module pool Program creation
  - » All the Module pool icon creations
  - » Module pool Program Execution

## 13. SAP Notes

- ✅ SAP Notes

## 14. Fiori/UI and Odata

✓ Introduction to Firori, Ui5 and Odata

» Introduction to Fiori and UI5

» Introduction to Odata services

» Publish CDS view in fiori app using Odata services

» Exercise : Publish CDS view as oDATA and consume in FIORI

✓ Advance HANA

» Open SQL , NATIVE SQL, AMDP , CDS View , FIORI In detail

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Deloitte.

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solutions delivered!

CYIENT

SLK software
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FIS

The Hackett Group
World Class Defined and Enabled

DOYENSYS
Technology Drives, We Lead

Dhanush INFOTECH
We make IT the way you want IT

Evosys
A Mastek Company

Arihant Adroit InfoSystems
Transforming Businesses through leveraged IT Solutions

# What our Trainees Say

"

The trainer is really able to communicate things in simple and crisp manner. Overall I found the training to be of Good value. Ease in accessing the content. However we can bring more of the business relevance or business cases in the training which might make it more useful.

**Manisha Upadhyay**

"

The teaching style is really very good, the way tutor explains the concepts are easy to understand. The material and instances they provide are also the great add on for the practice. No regret to choose Tech Leads.

**Shubham Dave**

"

Wonderful doubt clarification.

**Kartik Khobragade**

"

Thank you for a course. Good opportunities to ask questions and talk about real life examples.

**Gadwala Ravi**

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# Ask your queries to our experts!

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