



# **SAP ABAP**

## **Technical Training**

### **Sap S4 Hana**

### **Training Program**

#### **Who Can Do?**

Before entering the program, candidates must have knowledge of Windows, MS. Office or any other business application. Candidates may also have the background of business domain, which S/he interested to join the SAP S4 HANA.

SAP ABAP is the technical level training program on SAP S4 Hana, the candidate will be able to understand the SAP ABAP structure, processes, Architecture, Integration, Customization and other modules integration and its reporting systems.

**100,000+ Students  
have been Trained**

**since  
1997**

**Program is  
offered by**

**3D EDUCATORS**  
22 Years of  
Excellence in  
Training &  
Development  
**INT**

**Invest in  
People the  
only Asset  
that Appreciates**



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## About the Program Instructor

The “SAP - ERP System Implementation” training program has designed by the 3D-EDUCATORS – TRAINERS AND CONSULTANTS.

The “SAP S4 HANA ERP System Implementation” Program has been conducted by senior certified and qualified SAP ABAP ERP Consultants and I.T. professionals, who having the huge experience of teaching and implementation of ERP. They have worked with various large commercial banks, Private, Multinational and public sector companies. The consultants are having the certification of SAP Applications.

They trainers are foreign qualified and having the degrees of PhD, M.Phil., MBA, MSc and research background, More they having the experience of local and abroad.

## Inauguration

The Training Program will be inaugurated by a senior member of 3DEducators

## Program Structure

|                        |                  |
|------------------------|------------------|
| No of classes per week | <b>01 Class</b>  |
| Duration of each class | <b>03 – Hour</b> |

## Other Learning Activities

|                           |           |
|---------------------------|-----------|
| Classroom Assignments     | <b>15</b> |
| Presentations by Trainees | <b>01</b> |

As Consultant & Senior Trainers, the team of trainers of SAP ERP implementation, we at 3D EDUCATORS – TRAINERS & CONSULTANTS would not compromise on the faculty quality, that’s where we train the professionals and enhanced their skills to the best to be the best.

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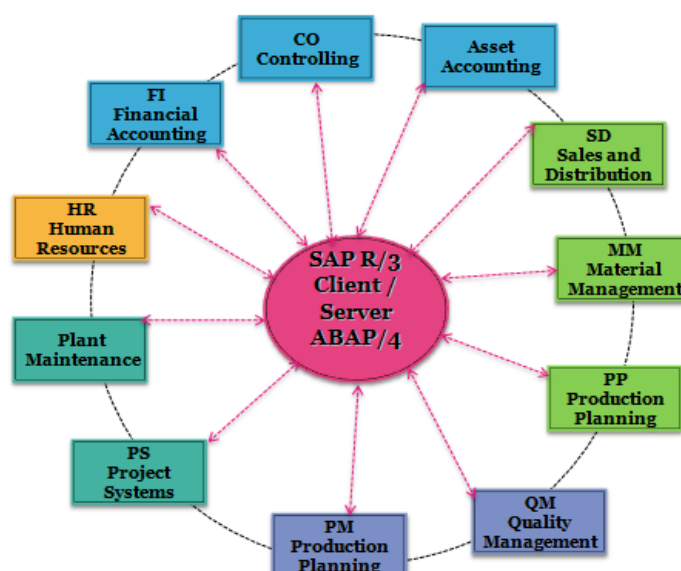


## ABOUT SAP S4 HANA MODULES | SAP S4 HANA MODULES LIST OVERVIEW

SAP S4 HANA Modules overview: – SAP stands for “Systems, Applications and Products in data processing” and it is the fourth largest software company in the world. SAP provides end to end solutions for financials, manufacturing, logistics, distribution etc. Each SAP module is integrated with other modules. SAP System divided in to two types of modules such as functional modules and technical modules.

The important SAP modules used by organization are FICO (Financials and Controlling), MM-(Materials Management), SD (Sales & Distribution), HR (Human Resources), PP (Production Planning), Project System PS.

## SAP S4 HANA Modules Integration





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### **1. Introduction of ERP**

- ERP Fundamentals.
- Features and advantages of ERP
- What is SAP?
- History & Features of SAP
- SAP R/3 Architecture (Presentation Server, Application Server, Database Server)
- SAP R/3 Architecture (Types of work processes)
- SAP Landscape (Development, Quality, Production)

### **2. Introduction to ABAP Programming**

- ABAP Programming concept
- What is WRICEFF Objects
- Fundamentals of creation of programs
- Introduction of standard Data Types
- Declaration of different types of variables
- Loop and Controls
- IF structure
- Case statement
- Conditional (DO-ENDDO)
- Un-Conditional (WHILE-ENDWHILE)
- Loop statement
- Control break statement
- Data structure
- User-Defined Data Types
- System Fields
- SAP Memory and ABAP Memory

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## 3. Introduction of ABAP Dictionary

- Overview of Dictionary objects
- Understanding of standard database tables / Custom Table
- Views
- Structure
- Data Element
- Domain
- Search Help
- Primary key and Foreign key Relationship
- Lock objects.

## 4. Introduction of Database Operations

- Understanding of Open SQL statement
- Understanding of Native SQL statement
- Addition of corresponding fields of statement
- Open SQL Statements

- 1) Select
- 2) Insert
- 3) Update
- 4) Delete

- Aggregate Expressions

- 1) MAX
- 2) MIN
- 3) AVG
- 4) SUM
- 5) COUNT



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### **5. Introduction of Internal Table**

- Overview of types of Internal tables (Standard, Sorted, Hashed)
- Processing on internal table using following statements
- Append, Insert, Modify, Sort, Read, Collect, Clear, Refresh, Delete, Free
- Processing logic Read table statement Loop at
- Inner Joins and For All Entries

### **6. Reports**

- Understanding of types of reports
- Generation of various types of reports
- Classical report
- ALV report
- ABAP Query

### **7. Understanding of report events**

- Initialization
- Start-of-selection
- At selection-screen
- Top-of-page
- End-of-page
- At line-selection
- At user-command

### **Message class**

- Creation of user define messages
- Overview of types of messages
- Displaying messages



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### **Debugging Techniques**

- Debugging Techniques
- Break-points (Static & Dynamic)
- Watch points
- Options to step through the program in Debugging Editor

### **8. Modularization technique**

- Include programs
- Subroutines
- Function modules / BAPI

### **9. Introduction of dialogue programming**

- Understanding of module pool programming
- Creation of module pool program
- Designing screens using various screens elements
- Navigation in between multiple screens
- Displaying data into table control
- Screen painter
- Menu painter
- Creation of menu bar, tool bar, title bar etc

### **10. Introduction of object transportation**

- Understanding of development class / package
- Creation of development class / package
- Creation of workbench request
- Transportation of objects
- Understanding of TMS technique

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### 11. Introduction of BDC

- Overview of BDC
- Methods of BDC
- Call transaction method
- Session method
- Working with foreground and background techniques
- Recording method

### ADVANCED ABAP CONTENTS

#### 1. **SMART FORMS / ADOBE FORMS.**

- Creation of Smart Form/ Adobe Form with different Window Types / FORM
- Passing Parameters into Smart Form/ Adobe Form
- Smart Form/ Adobe Form with Database using Tables
- Calling Smart Form/ Adobe Form at Runtime using Report

#### 2. **OBJECT ORIENTED ABAP**

- OOPS Programming.
- Local Classes, Global Classes.
- Class, Encapsulation, Inheritance, Polymorphism...

#### 3. **ENHANCEMENTS**

- Introduction to Enhancements.
- Different Ways of doing Enhancements.
- Implicit Enhancement / Explicit Enhancement.
- BADI, BTE
- User Exits.
- Types of Customer Exits.
  - Field Exits
  - Menu Exit
  - Function Exit.
  - Screen Exit



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### **Introduction to**

- ALE/IDOC (Intermediate Document)
- WORKFLOW
- ABAP for S/4HANA Development (CDS VIEWS, AMDP, ALV with IDA)
- SAP FIORI / SAPUI5 / RAP

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### **ONLINE LIVE CLASSES FACILITY AVAILABLE**

- Instructor Led Training
- Real Time Presentations
- Interactive Classes
- Complete Notes and Other Stuff shall be provided through our Secure Student Login Member's Area
- For Online Live Classes, you may please download the Admission Form through our website <http://www.3deducators.com>. Fill it properly and attached the required document along with Picture and send back to [info@3deducators.com](mailto:info@3deducators.com) with scanned fee submitted voucher in the bank.
- For Pakistan you may submit the fee at any MCB Branch with the title of "3D EDUCATORS-TRAINERS & CONSULTANTS".
- If you are outside Pakistan then you may transfer via Bank to Bank or any western union, Fast Track, Money Gram or else International Transfer Body.
- After Admission, if you don't have GMAIL Account then you are requested to kindly make one GMAIL Account and shared it [info@3deducators.com](mailto:info@3deducators.com). Then further correspondence shall be made by our institute official.
- Extra Bandwidth Charges shall be incurred.

### **DISTANCE NOT MATTER**

You can join in the live classes Sessions of 3D EDUCATORS – TRAINERS & CONSULTANTS from anywhere of the world.

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## PRECAUTIONARY MEASURES

- During Classes, you are requested to make sure that you are in isolated room, where no noise should be there except your voice.
- Kindly Switch Off your Cell Phone during the class, because it will disturb the quorum of class.
- If you have taken the admission in the course online lonely, then ethically it is recommended and suggested that you alone in the class.
- Recording of Lectures are not allowed at your end.

This world is emerging and growing in the 21st Century very rapidly because of latest and remarkable technologies and its advancement. Due to advancement of technology, we 3D EDUCATORS offer Live Interactive class sessions

3D EDUCATORS believe on Information Technology and its systems. Now you can also avail this facility at your home.

## CONTACT US

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Get the Admission Form

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