



SAP S/4 HANA Academy

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What is SAP?

- SAP stands for Systems, Applications and Products in Data Processing
- SAP is an ERP (Enterprise Resource Planning)
- ERP is an integrated software which integrates various functions of an organisation
- Functions: Procurement, Sales & Marketing, Accounting, HR, Finance, Production, Warehouse, Supply Chain

Different ERP Products

- SAP (SAP S/4, SAP ECC - Big Scale Industries, SAP B1, SAP ByDesign - SME)
- Microsoft Dynamics
- Microsoft Navision
- Oracle
- BAAN
- JD Edwards
- Peoplesoft
- Ramco
- Tally



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History of SAP

- 5 German Engineers working in IBM (1960s) - Xerox Corporation
- 1970s- First Product from SAP
- 1972 - R1
- 1980- R2
- 1990 -R3
- 2005 - ERP (ECC)
- 2015 - SAP S/4 HANA

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Comparing R/3, ECC and S4

- R/3 - 3 Tier Architecture - Presentation, Application, Database
- ECC (Enterprise Central Component)- New modules, some simplifications from Accounting point (New GL)
- SAP S/4 HANA (SAP Business Suite for HANA)- New Database (HANA) for faster execution, New & Improved Functionalities, New User Interface (Fiori)

What are different roles?

- SAP Consultant: Implementation, Support
- SAP End User: Doing Day to Day Transaction
- Accountants:
- Purchasers
- Sales Persons
- Production Engineers

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Difference between HANA, S4 HANA and Fiori

- HANA is a new database from SAP
- SAP S/4 HANA is an application which runs only on HANA DB
- Fiori is a presentation layer (New User Interface) from SAP

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How/ Why HANA is faster?

- High Performance Analytical Appliance
- In memory Computing: Data is stored directly in RAM(Cache memory)
- Column based: All previous DBs were storing data in Row based form, HANA can store the data in column based also (Row+Column) . Column based data storage results in faster reporting, also column based data is stored in compressed form
- Multicore Processors: SAP HANA uses latest technology and there are few certified vendors who provide this hardware (HP, Dell, Fujitsu, IBM etc)
- Parallel Processing: Multiple users can perform business transactions at the same time without creating the locks
- Powerful Calculation Engine: Which can perform the functions like Sum, Count, Avg within mili seconds

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SAP S/4 HANA Deployment Options

- SAP S/4 HANA On Premise: You would buy software licenses from SAP and implement on your own Hardware server
- SAP S/4 HANA Cloud: You would subscribe monthly/ quarterly, annually and SAP will provide you HW as well as SW
- SAP S/4 HANA Hybrid: Combination of On Premise and on cloud (SAP S/4 HANA On Premise (MM/SD/FICO) can be used in integration with Ariba/ Hybris/ Successfactors which are only available on cloud)

Different types of Projects in SAP

- Implementation: Customer is implementing a new SAP system
- Support: Customer already implemented SAP and now wants support on day to day basis
- Rollout: Customer already implemented SAP system. Now they want to add new plant/company to existing system (Plant Rollout - If customer is already having plants in Bengaluru, HYD and now they want to extend to PUNE)
- Development: Customer already implemented SAP system. Now they want to change some standard functionality and develop there own functionality
- Upgradation: Customer already implemented SAP. Currently customer is using SAP S/4 HANA 1709 and now they want to upgrade to 1909
- System Conversion: When customer wants to upgrade from SAP R/3 or ECC to SAP S/4 HANA

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Implementation Methodology

- SAP R/3, SAP ECC - SAP ASAP (Accelerated SAP) is recommended methodology
- SAP S/4 HANA - SAP Activate methodology is recommended

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SDLC

- Software Development Life Cycle
- Planning : Project Management Planning - Finalizing the team, finalising the Project Plan, Structure, Project Governance
- Requirement : Understanding the business requirement by discussions with users - Interviews, Observations, Workshops, Questionnaire etc
- Develop: Customize Solution, Coding
- Test: Test whether the developed solution is meeting business requirements
- Deploy: Setup the system to be used by the business users
- Run the software and regular Maintenance

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Phases	SAP ASAP	SAP Activate
Planning	Initial Preparation	Prepare
Requirement	Business Blueprinting	Explore
Develop & Test	Realization	Realize
Deploy	Final Preparation	Deploy
Run	Go Live & Support	Run

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SAP ASAP

- Initial Preparation: Project Management Activities (1 Month)
- Business Blueprinting: Phase in which Consultants will gather the Business requirements and create a BBP and it has to signed off. (3-4 Months)
- Realisation: Functional Consultant -Activate the required **standard** processes, Technical Consultant - create or adjust the **custom** business processes (Functional Consultant will provide the requirements to Technical Consultants), Test the standard and custom business processes (Unit Testing) (3 Months)
- Final Preparation: Functional Consultant will provide the trainings to business users, User Acceptance Test (UAT), Preparation for Go Live (Data Migration for Master/ Transactional) (4 Months)
- Go Live: Start entering the business transactions in SAP system
- Support: Functional & Technical Consultants will provide day to day support

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SAP Activate

- Discover: Discover the features of SAP S/4 HANA
- Prepare: Project Management related activities
- Explore: Phase in which Consultants will gather the Business requirements from users by following a new way of the gathering requirements, Consultant will start showing them standard SAP business processes using SAP Best Practices
- Realise: Regular Standup Meetings with the business users - Scrummaster, Sprints, Activate the required **standard** processes, Technical Consultant - create or adjust the **custom** business processes (Functional Consultant will provide the requirements to Technical Consultants), Test the standard and custom business processes (Unit Testing)
- Deploy: Functional Consultant will provide the trainings to business users using the redelivered end user training documents, User Acceptance Test (UAT) using SAP predelivered test scripts, Preparation for Go Live (Data Migration for Master/ Transactional using LTMC) (4 Months)
- Run

Benefits of SAP Activate over SAP ASAP

- Explore:
 - Instead of theoretical Business Blueprint discussions, now users would be able to see SAP Best Business Practice processes which will give more confidence to business users while giving their requirements
- Realize:
 - Users can participate
 - Regular Standup meetings to get business users's feedbacks
 - Scrummaster can monitor weekly progress using Sprints
- Deploy
 - Pre-delivered End User Training materials can be used for end user training
 - Pre-delivered Test Scripts can be used during UAT
 - Pre-delivered LTMC templates can be used to migrate the master and transactional data

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SAP Activate Important Links



- <https://go.support.sap.com/roadmapviewer/#/group/AAE80671-5087-430B-9AA7-8FBE881CF548/roadmapOverviewPage/S4HANATRANSONPRE:t3>
- https://rapid.sap.com/bp/#/BP_OP_ENTPR

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