

SAP S/4HANA Transition and ABAP Foundations

Business-process orientation and a prepared development walkthrough

FA-0683 · 3 days

Mainframe & Enterprise Systems · Software Development

Introduction

A three-day introduction to SAPS/4HANA for participants exploring enterprise processes and technical transition. Compare legacySAPR/3/ECC concepts with the arrangedS/4HANA environment, practise selected transactions and inspect a small preparedABAP application path.

Navigation and business-process activities are beginner-oriented; the technical segment is a scaffolded walkthrough, not ABAP mastery or a full system migration. Edition, authorisations, licences and available development interfaces determine the lab.

Learning outcomes

- Navigate selectedSAPGUI/Fiori tasks and explain introductoryS/4HANA architecture.
- Trace a prepared sales-to-billing and procurement example with relevant master data.
- Describe authorisation, landscape, transport and cutover-planning considerations.
- Explain the role ofABAP,CDS,OData and a separateFioriUI in a prepared application.
- Compare legacyBOPF/SEGW patterns with currentRAP concepts at an introductory level.

Prerequisites

- Basic computer literacy; priorSAP knowledge is helpful but not mandatory for orientation.
- Basic programming/ABAP familiarity is recommended for adapting the technical exercise; otherwise follow the demonstration.

- Access to the arranged S/4HANA learning system and appropriate user/developer permissions.

Training outline

1. Day 1 – SAP Evolution, Architecture and Navigation

Understanding SAP's Evolution

- Origins of SAP R/3 and the ERP Business Suite
- Transition to SAP S/4 HANA: motivations and technological drivers

SAP Solutions Landscape

- Overview of enterprise modules and business suites
- Positioning of S/4 HANA in the SAP ecosystem

System Navigation Basics

- Logging in, user interface comparison (SAP GUI vs Fiori Launchpad)
- Practical navigation exercises

Key Concepts of S/4 HANA & Fiori

- Data simplification, SAP HANA in-memory database concepts and embedded analytics
- Core capabilities and latency/data-availability limits of analytics

Legacy R/3/ECC and S/4 HANA: introductory differences

- Data structures: Universal Journal, simplified data model
- Interface and process changes; implementation-dependent outcomes

SAP Authorization & System Landscape

- User roles, authorizations, system types (Dev, QA, Prod)
- Overview of landscape architecture and client strategy

Distinguish SAP R/3 from later ECC rather than treat the terms as identical. Edition-specific Fiori/app availability and authorised transactions differ.

2. Day 2 — Business Processes and Implementation Context

Order-to-Cash Process Flow

- Sales order → outbound delivery/picking → post goods issue → billing, for the prepared standard scenario
- Hands-on simulation in S/4 HANA

Procure-to-Pay Process Flow

- Create Purchase Order → Goods Receipt → Invoice Posting
- Prepared fictional procurement-scenario walkthrough

Data Modeling and Master Data

- Overview of master data (customer, vendor, material)
- Impact of data models in S/4 vs ECC

Business Process Integration

- Integrating order, inventory, procurement, and billing
- Monitoring transaction lifecycle and error handling

Hands-On: Practical Scenario

- Selected sales-cycle simulation from order through billing
- Analysis of system messages and troubleshooting steps

3: Technical Underpinnings & Implementation Strategy

Underlying Technologies

- Application platforms, web servers, HANA database fundamentals
- Role of Fiori Apps and their architecture

Transport Management & Configuration

- Concepts of customizing, transport requests, and system movements

- Controlled transport/release and rollback considerations

Implementation Strategy

- Designing a roadmap for migration or greenfield implementation
- Cutover planning, roll-out considerations, stakeholder engagement

System Administration Essentials

- Basics of authorization configuration, client strategy, technical setup

Practise selected steps in a prepared business cycle, not a live transaction. Inspect dependencies, system messages, responsibilities and migration/greenfield planning limits.

3. Day 3 – ABAP and a Prepared Application Walkthrough

Tooling and Data Models

ABAP Development in S/4 HANA

- ABAP concepts and a scaffolded code walkthrough

ABAP Tooling Setup

- ABAPDevelopmentTools in the arrangedEclipse environment, with release/permission checks

ABAP models, services and technical strategy

CDS Views

- CDS data models and consumption/projection concepts; pattern depends on release and programming model

Transactional Logic, Services and UI

Transactional behaviour: currentRAP concepts and legacyBOPF comparison

- Inspect prepared behaviour/BOPF artifacts where supported;BOBT is a legacy-context demonstration

OData Services & UI

- OData service exposure via the appropriate Gateway/RAP path; Fiori UI is separate, not automatically generated by SEGW

Hands-On: Build Custom S/4 App

- Inspect a prepared path from data/CDS and transactional behaviour to OData service and Fiori UI

Implementation Strategy & Transport Management

- Demonstrate controlled changes/transport in a learning landscape, not production movement

Technical Architecture & Admin

- ABAP under the hood in S/4—HANA DB, performance, system administration.

Small Design Exercise and Review

Final Project

- Define a simple custom S/4 HANA app based on business scenario: outline tables, CDS views, object logic, exposed services, UI.

Wrap-Up

- Consolidated review, next steps for continued learning (e.g., RAP, advanced ABAP).

Sketch a bounded app and inspect prepared artifacts. Modern RAP uses CDS models, behaviour and service bindings; legacy BOPF/SEGW examples are compared only where supported, not presented as a universal current-cloud path.