

SAP S/4HANA Transition with ABAP Extension Foundations

FA-0811 · 3 days

Mainframe & Enterprise Systems · Software Development

Introduction

Explore the transition from SAP ERP/ECC to SAP S/4HANA, core business processes and an introductory ABAP extension workflow. Three days combine navigation, architecture, prepared business-process exercises and selected development demonstrations.

The ABAP portion introduces CDS, transactional logic, OData and UI integration using a compatible prepared S/4HANA edition. Classic BOPF/Gateway examples are distinguished from RAP; the final task is a small app design or guided prototype, not an independent full migration or production app.

Learning outcomes

- Compare SAP ERP/ECC and S/4HANA concepts, interfaces and simplified data structures.
- Navigate selected SAP GUI/Fiori tasks and explain development, QA and production landscapes.
- Follow prepared order-to-cash and procure-to-pay examples and inspect common messages.
- Describe CDS modelling, business-object logic, OData service exposure and separate UI consumption.
- Use introductory ADT and extension demonstrations and outline a small business app.
- Explain authorisations, configuration and transport considerations and identify RAP as a further learning path.

Prerequisites

The business/architecture introduction is accessible to beginners. Basic ABAP familiarity is recommended for the development segment. Exercises require a prepared compatible SAP environment, appropriate access and ADT for Eclipse where used.

Training outline

1. Day 1 — Foundations, interfaces and architecture

SAP Evolution and Landscape

- R/3 and SAP ERP/ECC to S/4HANA: transition drivers, architecture and the SAP HANA database

System Navigation

- SAP GUI vs Fiori Launchpad—navigation, personalization, setup.

Technical & System Landscape

- Dev, QA, Prod; roles, authorizations, clients, system landscape design.

S/4 HANA Innovations

- Universal Journal, simplified data model, embedded analytics.

R/3 vs S/4: Practical Differences

- Transaction flow, simplified modules, data structures.

2. Day 2 — Business processes and ABAP introduction

Order-to-Cash and Procure-to-Pay Workflows

- Prepared exercises: selected sales orders, deliveries, goods movements, invoices and purchase orders

Master & Transactional Data Insight

- Customer, vendor, material—usage across modules.

Process Integration & Troubleshooting

- Prepared simulation, error handling and message analysis

INTRODUCTION: ABAP Development in S/4 HANA

- ABAP course overview and a guided small example

ABAP Tooling Setup

- Using ABAP Development Tools (ADT) for Eclipse with a compatible system

3. Day 3 – Extension concepts and technical strategy

CDS Views

- CDS modelling layers and view entities as supported by the selected edition; classic transactional/consumption examples where applicable

Classic BOPF transactional modelling and comparison with RAP

- Demonstration of generating/testing supported BOPF objects and BOBT in a compatible classic environment

OData Services & UI

- OData service creation with Gateway Service Builder (SEGW) in a compatible classic environment; separate UI development/consumption

Hands-On: Build Custom S/4 App

- Guided walkthrough: tables, CDS, supported business-object logic, service exposure and a prepared UI example

Implementation Strategy & Transport Management

- Customize, transport, move across landscape.

Technical Architecture & Admin

- ABAP/HANA architecture, performance and administration considerations

Final Project

- Define a small app design: data model, business logic, exposed service and UI needs; optional guided prototype in the prepared environment

Wrap-Up

- Review and further learning: RAP and advanced ABAP