

S4D437 – Transactional Apps with the ABAP RESTful Programming Model

Course Duration: 40 Hours

Course Code: S4D437

1. Course Overview

The **S4D437 – Transactional Apps with the ABAP RESTful Programming Model** course provides a detailed introduction to building transactional applications using the ABAP RESTful Application Programming (RAP) Model in SAP S/4HANA. Participants will learn how to design, implement, and extend transactional business objects with RAP, covering concepts such as CDS views, behavior definitions, service binding, and Fiori UIs. The course combines theoretical knowledge with practical exercises to enable developers to build modern, cloud-ready SAP Fiori applications.

2. What You'll Learn?

- Understand the ABAP RESTful Application Programming (RAP) model
- Create and extend transactional business objects using RAP
- Work with Core Data Services (CDS) views for data modeling
- Define and implement behavior definitions for business logic
- Expose services using service binding and consume them in SAP Fiori UIs
- Manage draft handling and transactional processing

- Apply best practices for developing scalable, maintainable ABAP RAP apps

3. Target Audience

- ABAP Developers and SAP Technical Consultants
- Application Developers working on SAP S/4HANA projects
- Developers aiming to modernize apps with Fiori and RAP
- Technical Architects and Development Leads
- Anyone interested in building cloud-ready transactional SAP applications

4. Pre-Requisites

- Basic knowledge of ABAP programming
- Familiarity with CDS views and ABAP development tools (ADT)
- Understanding of SAP Fiori/UI5 (helpful but not mandatory)
- Completion of **S4D430 (ABAP RESTful Programming Model – Basics)** recommended

5. Course Content

Module 1: Introduction to the ABAP RESTful Application Programming (RAP) Model

Module 2: Core Data Services (CDS) for Data Modeling in RAP

Module 3: Defining and Implementing RAP Business Objects

Module 4: Behavior Definitions – Actions, Validations, and Determinations

Module 5: Service Binding and Exposing OData Services

Module 6: Draft Handling in Transactional Apps

Module 7: Developing and Consuming Fiori UIs for RAP Apps

Module 8: Extending Standard RAP Applications
Module 9: Best Practices and Hands-On Case Studies

