

SAP ABAP Full Roadmap (From Beginner to Interview Level)

1. SAP & ABAP Basics

- Introduction to SAP ERP, SAP Modules, and SAP Landscape
- What is ABAP and its role in SAP
- SAP GUI navigation
- Understanding Data Dictionary (DDIC)

2. ABAP Programming Fundamentals

- Syntax, structure of an ABAP program
- Data types, constants, variables
- Operators, control statements (IF, CASE, DO, WHILE, LOOP)
- Modularization: Subroutines, Functions, Includes

3. Data Dictionary (DDIC) Objects

- Domains, Data Elements, Tables, Views, Search Helps, Lock Objects
- Table types: Transparent, Cluster, Pooled
- Foreign keys, Check tables, Value tables

4. Internal Tables & Work Areas

- Standard, Sorted, Hashed tables
- APPEND, INSERT, MODIFY, DELETE, READ, LOOP, SORT, COLLECT
- Header lines, Field symbols, and Data references

5. Open SQL (Database Operations)

- SELECT (single, multiple), INSERT, UPDATE, DELETE, MODIFY
- Joins, Subqueries, Aggregate functions
- Performance tuning using WHERE and INDEX

6. Modularization Techniques

- Subroutines (FORM...ENDFORM)
- Function Modules & Function Groups
- Include Programs
- Macros

7. Reports

- Classical Reports
- Interactive Reports
- ALV (ABAP List Viewer) Reports – Grid and List

8. Dialog Programming (Module Pool)

- Screen Painter & Menu Painter
- PBO & PAI (Process Before/After Output/Input)
- GUI Status, GUI Title
- Table Control and Tabstrip

9. File Handling

- Upload/Download files (OPEN DATASET, READ DATASET)
- Application Server & Presentation Server

10. Enhancements & Modifications

- User Exits, Customer Exits, BAdls
- Implicit/Explicit Enhancements

11. ABAP Objects (OOPs in ABAP)

- Class, Object, Methods, Constructors
- Inheritance, Polymorphism, Interfaces, Events

12. Smart Forms & SAP Scripts

- Smart Form creation, Layout, and Driver Program
- Difference between SAP Script and Smart Form

13. Debugging & Performance Tuning

- Breakpoints, Watchpoints
- Runtime analysis, SQL trace (ST05), Code Inspector

14. Data Transfer Techniques

- BDC (Batch Data Communication) – Session & Call Transaction
- LSMW (Legacy System Migration Workbench)
- IDOCs (Introduction level)

15. Advanced & S/4HANA Topics

- CDS Views (Core Data Services)
- AMDP (ABAP Managed Database Procedures)
- New Open SQL syntax in S/4HANA
- ABAP RESTful Programming Model (RAP) — overview

16. Real-Time Project Exposure

- Understand Technical Specs (TS) and Functional Specs (FS)
- Hands-on small project: report, module pool, or enhancement
- Version management and transport requests (SE09/SE10)

17. Interview & Forward Learning

- Top 50 ABAP interview questions (covering all above topics)
- Debugging-based scenarios
- Real business case discussions
- Continue exploring: ABAP on Cloud, OData, Fiori integration