# S4D401 - SAP Intermediate ABAP Programming Training

Duration: **5 Day**

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The **Intermediate ABAP Programming course** builds on the Basic ABAP Programming course and helps you advance your ABAP development skills. It focuses on analyzing, testing, and optimizing ABAP code using advanced tools and techniques.

Participants will learn how to improve code performance, structure, and maintainability while applying modern development practices.

This training covers:

- ABAP code analysis and testing tools
- Performance optimization techniques
- Object-oriented programming (OOP) concepts
- Modern ABAP development practices

The course is delivered on **SAP BTP, ABAP environment**, but is also applicable to:

- SAP S/4HANA Cloud
- SAP S/4HANA 2020 or later

### Based on Software Release

- SAP BTP, ABAP Environment
- SAP S/4HANA Cloud, ABAP Environment
- SAP S/4HANA 2020 or later

### Notes

This course is suitable for all ABAP environments and is available as self-paced learning on SAP platforms.

## Prerequisites

**Essential:**

- S4D400

**Recommended:**

- None

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## Who Should Attend

This course is designed for:

- Developers
- Development Consultants
- Technology Consultants

## What You Will Learn

After completing this course, you will be able to:

- Improve your ABAP programming knowledge
- Analyze and test ABAP code effectively
- Optimize performance of applications
- Write clean and maintainable code

## Training Outline

- Analyzing and testing ABAP code
- Data types and type conversions
- Processing character fields
- Code pushdown using ABAP SQL
- Internal table performance optimization
- Implementing authorization checks
- Designing object-oriented code
- Working with exception classes
- Adding documentation to ABAP code