

BC402: Advanced ABAP

Course Outline

Course announcements

In this course, you will acquire in-depth knowledge of the advanced features in ABAP programming and understand how to apply them practically in your ABAP applications.

Course Duration

5 Days

Delivery Format

Classroom, Virtual Live Classroom, Hybrid

Course Fee

Contact us for more details

Goals

This course will prepare you to:

- Acquire in-depth knowledge of the ABAP programming language
- Write more robust ABAP programs
- Assess ABAP programming techniques according to performance aspects and develop high-performance programs
- Gain detailed knowledge in ABAP Open SQL
- Develop dynamic ABAP programs

Audience

- Developer
- Developer Consultant

Content

- ABAP Language Evolution
 - Explaining the Difference between Statements, Functions and Expressions
 - Describing ABAP Data Types and Data Objects
 - Selecting Data from a Single Database Table with Open SQL

- Program Calls and Memory Management
 - Calling Programs Synchronously
 - Describing the ABAP Runtime and Memory Management
 - Using Shared Objects
- Statements, Functions, and Expressions for Simple Data
 - Using Numeric Data Types in Arithmetic Expressions
 - Understanding Statements for Processing Character Strings and Byte Strings
 - Processing Character Strings and Byte Strings Using Functions and Expressions
- Internal Tables
 - Using Standard, Sorted, and Hashed Tables
 - Using Special Techniques with Internal Tables
 - Using Expressions for Internal Tables
 - Using Data References and Field Symbols
- Dynamic Programming
 - Explaining the Dynamic Programming Techniques of ABAP
 - Using Dynamic Statements and Dynamic Calls
 - Using Generic Data Types
 - Describing Data Types, Data Objects, and Objects at Runtime
 - Creating Data Types, Data Objects, and Objects at Runtime
 - ABAP Open SQL
 - Describing the Technical Background of Database Accesses with Open SQL
 - Processing and Aggregating Datasets on the Database
 - Implementing Complex WHERE
 Conditions and Special INTO
 Clauses



- Using the Features of the New Open SQL
- Selecting Data from Multiple Database Tables
- Explaining Additional Techniques for Reading from Multiple Database Tables
- Analysis and Testing
 - Defining and Activating Checkpoints
 - Using the ABAP Trace
 - Using the SQL Trace
 - Using the SQL Monitor