Advanced ABAP

Course code: BC402

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 based on software release: AS ABAP 7.50, SAP ECC 6.08.

Who is the course for
- Developer
- Developer Consultant

What we teach you

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

Required skills

Essential
- BC400
- BC401

Recommended
- Practical programming experience in ABAP &ABAP Objects
- BC430

Course outline
- 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

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- 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

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