BC400: ABAP Workbench Foundations

(Collection 16)

Course 8003 – 40 Hours

Overview

Gain a detailed knowledge of the fundamental concepts of ABAP, and learn how to comfortably and efficiently work with the ABAP Workbench tools, in order to undertake custom developments with confidence

On Completion, Delegates will be able to

- Learn the fundamental concepts of the ABAP programming language
- Efficiently use the ABAP Workbench tools
- Create simple application programs with user dialogs (list, selection screen, screens, Web Dynpro) and database dialogs (reading from the database)

Who Should Attend

- Developer
- Developer Consultant
- Help Desk / COE Support
- Program / Project Manager

Prerequisites

Essential
- Course BC100 or previous programming language experience

Recommended
- Course SAPTEC

Course Contents

- Describing how SAP HANA Powers a Digital PlatformFlow of an ABAP Program
  - Describing the Processing of ABAP Programs
- ABAP Workbench
  - Introducing the ABAP Workbench
  - Organizing ABAP Development Projects
  - Developing ABAP Programs
  - Finalizing ABAP Development Projects
- Basic ABAP Language Elements
  - Defining Elementary Data Objects
  - Using Basic ABAP Statements
  - Analyzing Programs with the ABAP Debugger

- Modularization Techniques in ABAP
  - Explaining Modularization
  - Defining and Calling Subroutines
  - Calling Function Modules
  - Creating Function Modules
  - Describing Business Application Programming Interfaces (BAPIs)
  - Calling Methods of Global Classes
  - Creating Global Classes and Static Methods
  - Using Local Classes
- Complex Data Objects
  - Using Structured Data Objects
  - Using Internal Tables
- Data Modeling and Data Retrieval
  - Explaining Data Models
  - Retrieving Single Database Records
  - Retrieving Multiple Database Records
  - Describing Other Aspects of Database Access
  - Implementing Authorization Checks
- Classic ABAP Reports
  - Implementing ABAP Lists
  - Implementing Selection Screens
  - Implementing Events of ABAP Reports
- Screens
  - Creating Screens
  - Creating Input and Output Fields
  - Implementing Data Transport
- SAP List Viewer
  - Using the SAP List Viewer
- Web Dynpro ABAP
  - Describing Web Dynpro ABAP
  - Implementing Navigation in Web Dynpro
  - Implementing Data Transport in Web Dynpro
- Program Analysis Tools
  - Improving the Quality of ABAP Code with the Code Inspector
- ABAP Development Tools for SAP NetWeaver
  - Describing ABAP Development Tools for SAP NetWeaver
  - Creating an ABAP Project in Eclipse
- SAP Standard Software Adjustments
  - Adjusting the SAP Standard Software