

BC401: ABAP Objects

Course Outline

Course announcements

Strengthen your ABAP skills by gaining a full understanding of the use of object-oriented programming techniques, and 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:

- Understand the concepts of objectoriented programming
- Develop business applications with ABAP Objects

Audience

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

Content

- Introduction to Object-Oriented Programming
 - Explaining the Object-Oriented Programming Model
 - Analyzing and Designing with Unified Modeling Language (UML)
- Fundamental Object-Oriented Syntax
 - Creating Local Classes
 - Creating Objects

- Accessing Methods and Attributes
- Implementing Constructors in Local Classes
- Implementing Class
 Constructors in Local Classes
- Inheritance and Casting
 - Implementing Inheritance
 - Implementing Upcasts Using Inheritance
 - Implementing Polymorphism Using Inheritance
 - Implementing Downcasts Using Inheritance
- Interfaces and Casting
 - Defining and Implementing Local Interfaces
 - Implementing Polymorphism Using Interfaces
 - Integrating Class Models Using Interfaces
- Object-Oriented Events
 - Implementing Events in Local Classes
 - Implementing Events in Local Interfaces
- Object-Oriented Repository Objects
 - Creating Global Classes
 - Defining and Implementing Global Interfaces
 - Implementing Inheritance in Global Classes
- ABAP Object-Oriented Examples
 - Using the ABAP List Viewer (ALV)
 - Describing Business Add-Ins (BAdIs)
- Global Classes in ABAP Development Tools
 - Developing Eclipse-Based ABAP Programs
- Class-Based Exceptions
 - Explaining Class-Based Exceptions
 - Defining and Raising Exceptions
 - Implementing Advanced
 Exception Handling Techniques
- Unit Testing



- Unit Testing with ABAP Unit
- Object-Oriented Design Patterns
 - Implementing Advanced Object-Oriented Techniques
 - Implementing the Singleton Pattern
 - Implementing Factory Classes Using Friendship
 - Implementing Persistent Objects
- Runtime Type Services
 - Using Runtime Type Identification (RTTI)
- Creation of a Comprehensive Object-Oriented Application
 - Developing a Comprehensive Object-Oriented Application