

# ABAP Objects

Course code: BC401

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

## Who is the course for

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

## What we teach you

This course will prepare you to:

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

## Required skills

### Essencial

- BC400

## Course outline

- 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)

### GOPAS Praha

Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Brno

Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

### GOPAS Bratislava

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



Copyright © 2020 GOPAS, a.s.,  
All rights reserved

# ABAP Objects

- 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

## **GOPAS Praha**

Kodaňská 1441/46  
101 00 Praha 10  
Tel.: +420 234 064 900-3  
[info@gopas.cz](mailto:info@gopas.cz)

## **GOPAS Brno**

Nové sady 996/25  
602 00 Brno  
Tel.: +420 542 422 111  
[info@gopas.cz](mailto:info@gopas.cz)

## **GOPAS Bratislava**

Dr. Vladimíra Clementisa 10  
Bratislava, 821 02  
Tel.: +421 248 282 701-2  
[info@gopas.sk](mailto:info@gopas.sk)



Copyright © 2020 GOPAS, a.s.,  
All rights reserved