

# OOP ABAP Course Content

<p><b><u>Week - 1</u></b></p> <p><b>Introduction to Object-Oriented Programming</b></p> <ul style="list-style-type: none"><li>• The Need for a Better Abstraction</li><li>• Classes and Objects</li><li>• Establishing Boundaries</li><li>• Reuse</li><li>• Object Management</li><li>• UML Tutorial: Class Diagram Basics</li><li>• Summary</li></ul> <p><b>Working with Objects</b></p> <ul style="list-style-type: none"><li>• Syntax Overview</li><li>• Creating and Using Objects</li><li>• Building Your First Object-Oriented Program</li><li>• Getting Started with the Class Builder</li><li>• Case Study: Working with Regular Expressions</li><li>• UML Tutorial: Object Diagrams</li><li>• Summary</li></ul> <p><b>Inheritance</b></p> <ul style="list-style-type: none"><li>• Generalization and Specialization</li><li>• Inheriting Components</li><li>• The Abstract and Final Keywords</li><li>• Inheritance</li><li>• Using the Refactoring Assistant</li><li>• UML Tutorial: Advanced Class Diagrams Part I</li><li>• Summary</li></ul> <p><b><u>Week - 3</u></b></p> <p><b>Error Handling with Exceptions</b></p> <ul style="list-style-type: none"><li>• Lessons Learned from Prior Approaches</li><li>• The Class-Based Exception Handling Concept</li><li>• Dealing with Exceptions</li><li>• Raising and Forwarding Exceptions</li></ul>	<p><b><u>Week - 2</u></b></p> <p><b>Polymorphism</b></p> <ul style="list-style-type: none"><li>• Object Reference Assignments Revisited</li><li>• Dynamic Method Call Binding</li><li>• Interfaces</li><li>• UML Tutorial: Advanced Class Diagrams Part II</li><li>• Summary</li></ul> <p><b>Debugging Objects</b></p> <ul style="list-style-type: none"><li>• Debugging Objects Using the Classic ABAP Debugger</li><li>• Debugging Objects Using the New ABAP Debugger</li></ul> <p><b>Encapsulation and Implementation Hiding</b></p> <ul style="list-style-type: none"><li>• Lessons Learned from the Procedural Approach</li><li>• Data Abstraction with Classes</li><li>• Defining Component Visibilities</li><li>• Hiding the Implementation</li><li>• Designing by Contract</li><li>• UML Tutorial: Sequence Diagrams</li><li>• Summary</li></ul> <p><b>Object Initialization and Cleanup</b></p> <ul style="list-style-type: none"><li>• Creating Objects</li><li>• Controlling Object Initialization with Constructors</li><li>• Garbage Collection</li><li>• Tuning Performance</li><li>• Summary</li></ul>
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# OOP ABAP Course Content

- Creating Exception classes
- UML Tutorial: Activity Diagrams Summary

## **Working with the IT List Viewer**

- Overview of the IT Control Framework
- Overview of the ALV Object Model
- Getting Started with the Flight Query Report
- Event Handling with the ALV Object Model
- UML Tutorial: Communication Diagrams

## **ABAP Object Services**

- Object-Relational Mapping Concepts
- Persistence Service Overview
- Building Persistent Classes
- Working with Persistent Objects
- UML Tutorial: Advanced Sequence Diagrams
- Summary