BC404
ABAP Programming in Eclipse

COURSE OUTLINE

Course Version: 16
Course Duration: 3 Day(s)
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Typographic Conventions

American English is the standard used in this handbook.
The following typographic conventions are also used.

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<tr>
<th>This information is displayed in the instructor’s presentation</th>
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<td>Demonstration</td>
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<td>Procedure</td>
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<td>Warning or Caution</td>
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<td>Hint</td>
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<td>Related or Additional Information</td>
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<td>Facilitated Discussion</td>
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<td>User interface control</td>
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<td>Window title</td>
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*Example text*

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## Course Overview

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<th>Unit 1: Introduction to Eclipse</th>
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<th>Unit 2: The ABAP Development Cycle in Eclipse</th>
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<th>Unit 3: Function Groups and Function Modules</th>
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<th>Unit 4: ABAP Dictionary Objects in Eclipse</th>
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<th>Unit 6: Web Dynpro Development</th>
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<th>Unit 8: Testing and Analysis</th>
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TARGET AUDIENCE
This course is intended for the following audiences:

- Developer
- Development Consultant
Lesson 1: Understanding How SAP Uses Eclipse

Lesson Objectives
After completing this lesson, you will be able to:

• Understand the Role of Eclipse-Based Tools at SAP

Lesson 2: Installing Eclipse

Lesson Objectives
After completing this lesson, you will be able to:

• Install Eclipse

Lesson 3: Defining an ABAP Project

Lesson Objectives
After completing this lesson, you will be able to:

• Log On To The SAP System
• Explain the online development model
• Explain how multiple projects can exist in a single workspace
• Modify Eclipse preferences and project-specific settings
• Add a favorite package to an ABAP project

Lesson 4: Organizing Work with the Eclipse Workbench

Lesson Objectives
After completing this lesson, you will be able to:

• Describe the Eclipse Workbench
• Organize editors and views into perspectives
• Arrange objects for editing
• Navigate information and resources using views
• Access interface elements using Quick Access
Lesson 1: Creating Repository Objects

Lesson Objectives
After completing this lesson, you will be able to:

• Create a repository object

Lesson 2: Editing a Repository Object

Lesson Objectives
After completing this lesson, you will be able to:

• Improve coding speed using the ABAP editor’s code completion utilities

Lesson 3: Debugging ABAP in Eclipse

Lesson Objectives
After completing this lesson, you will be able to:

• Debug applications in Eclipse
• Use the Jump to the Next Raised Exception feature
Lesson 1: Creating a Function Group and a Function Module

Lesson Objectives
After completing this lesson, you will be able to:

- Create a Function Group and a Function Module
UNIT 4
ABAP Dictionary Objects in Eclipse

Lesson 1: Working With Data Elements

Lesson Objectives
After completing this lesson, you will be able to:

● Work With Data Elements in ADT

Lesson 2: Working With Structures

Lesson Objectives
After completing this lesson, you will be able to:

● Work With Structures in ADT

Lesson 3: Modelling Views with ABAP Core Data Services

Lesson Objectives
After completing this lesson, you will be able to:

● Model views with ABAP Core Data Services
Lesson 1: Creating a Global Class

Lesson Objectives
After completing this lesson, you will be able to:

- Create a global class

Lesson 2: Refactoring

Lesson Objectives
After completing this lesson, you will be able to:

- Use a refactoring Quick Fix
- Rename an element
- Extract a method
- Delete unused variables
Lesson 1: Creating Web Dynpro Components

Lesson Objectives
After completing this lesson, you will be able to:

• Create a Web Dynpro application
Lesson 1: Navigating in Eclipse
Lesson Objectives
After completing this lesson, you will be able to:

- Navigate within a source code editor
- Navigate using the outline view

Lesson 2: Searching in Eclipse
Lesson Objectives
After completing this lesson, you will be able to:

- Search for an object
- Navigate using the Where-used feature

Lesson 3: Managing Version Control
Lesson Objectives
After completing this lesson, you will be able to:

- Compare current and released versions of ABAP development objects

Lesson 4: Identifying Sources of Help and Information
Lesson Objectives
After completing this lesson, you will be able to:

- Display additional code information using ABAP keyword help
- Display information on running applications using feeds
- Document ABAP source code
Lesson 1: Performing Static Testing with the Syntax Check

Lesson Objectives
After completing this lesson, you will be able to:

- Check syntax

Lesson 2: Performing Static Testing with the ABAP Test Cockpit

Lesson Objectives
After completing this lesson, you will be able to:

- Run ABAP Test Cockpit (ATC) tests

Lesson 3: Performing ABAP Unit Tests

Lesson Objectives
After completing this lesson, you will be able to:

- Perform an ABAP unit test

Lesson 4: Analyzing Performance with the ABAP Profiler

Lesson Objectives
After completing this lesson, you will be able to:

- Create and interpret an ABAP profile
Lesson 1: Extending Eclipse Functionality with Other SAP Tools

Lesson Objectives
After completing this lesson, you will be able to:

- Explain Eclipse architecture
- Publish a HANA view