

**Course title**

*Introduction to Object-oriented Programming*

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**Course duration**

Equivalent to 8 hours of instructor-led training

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**Audience**

This course is for experienced Progress OpenEdge Advanced Business Language (ABL) developers who want to learn how to use the object-oriented capabilities of ABL.

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**Description**

In this course you will learn how to use the object-oriented capabilities of Progress OpenEdge ABL. First you will be introduced to key features of Progress Software's object-oriented ABL. Next, you will learn how to develop and test classes. Finally, you will learn how to further develop an application by applying object-oriented programming features such as inheritance, interface classes, singletons, dynamic instances, and events.

The materials that you receive with this course include a Course Guide, which includes hands-on lab exercises and step-by-step solutions, and a CD with example code and exercise files with solutions.

This course is also available online with a subscription to the [Progress Education Community](#).

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**Version compatibility**

This course is compatible with OpenEdge 11.7.

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**Role-based learning path**

This course is a part of the following role-based learning path:

- OpenEdge Developer
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## What you will learn

After taking this course, you should be able to:

- Describe the key features of object-oriented ABL programming.
  - Define the parts of an ABL class, including:
    - Data members
    - Constructors
    - Methods
    - A destructor
  - Access data members and call methods within a class.
  - Work with other classes, including:
    - Creating instances
    - Accessing data members and methods
    - Accessing a class instance dynamically
    - Deleting instances
  - Test a class
  - Define and use an inheritance hierarchy
  - Define and use interface classes
  - Create singletons (static instances)
  - Create instances dynamically
  - Define and use class events
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## Prerequisites

Students should already be able to:

- Develop and test ABL procedural code.
  - Perform basic tasks in Progress Developer Studio for OpenEdge:
    - Define a workspace.
    - Create a project.
    - Use Project Explorer to navigate within the workspace.
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