

# About This Course

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## ***Course audience***

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This course is designed for Progress® OpenEdge® developers.

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## ***Course prerequisites***

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Before you begin this course, you should have:

- Experience with ABL procedural programming
  - Created OpenEdge projects in Progress® Developer Studio for OpenEdge®
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## ***Student goals***

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Please take a few minutes to document your own goals for this course.

- What will you have to know and produce when you return to work?
  - What are the things that you most want to know about ABL object-oriented programming?
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## ***Introduce yourself***

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Please introduce yourself to the group by sharing the following:

- Your name and your job.
  - The name of your company and its type of business.
  - Your technical background.
  - Any prior experience with OpenEdge?
  - What you would like to learn from this course.
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## Course goals

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When you complete this course, you should be able to:

- Describe the key features of object-oriented ABL programming.
  - Define the parts of an ABL class
  - Access data members and call methods within a class.
  - Work with other classes
  - 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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# Module overview

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This course contains the following modules:

Lesson	What it covers
About This Course	Introduction and overview; identify goals and objectives.
Introduction to Object-oriented Programming	In this lesson, you will be introduced to object-oriented programming and to key features of Progress Software's object-oriented Advanced Business Language (ABL). You will also set up your development environment for the exercises in this course.
Getting Started with ABL Classes	In this lesson, first you will learn how to define data members, constructors, methods, and a destructor for a class. Then you will learn how to access data members and call methods from within a class. Next, you will learn how to work with other classes, including how to create class instances, access data members and methods, access class instances dynamically, and delete class instances. Finally, you will learn how to test an ABL class by writing a test procedure.
Using ABL Classes in an Application	In this lesson, first, you will learn how to build class inheritance hierarchies to share data members, properties, methods, and events between related classes. Next, you will learn how to define a class using an interface class. Then you will learn how to define singletons. Next, you will learn how to create instances dynamically. Finally, you will learn how to define and publish an event and subscribe to it.

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## Notes