

The Salesforce logo is displayed in white text inside a light blue cloud shape in the top right corner of the page.

Introduction to Object-Oriented Programming with Force.com Code

This course provides those who are new to programming with an introduction to object-oriented programming using Salesforce's Java-like programming language called Apex. In this class, you'll learn the basics of creating classes and triggers in Force.com code as well as best practices and development methodology concepts that will help you be successful as you start to build your first Force.com applications. At the end of this class, you'll have an understanding of how to approach your first programming assignment, how to construct basic Force.com code to build on the Force.com platform, and hands-on experience with the Force.com toolset.

Duration

5 days

Delivery Format

Classroom

Who should take this course?

Introduction to Object-Oriented Programming with Force.com Code is designed for people who are familiar with the Salesforce application user interface and customizing applications using the Setup menu and who want to gain an understanding of object-oriented programming and develop basic Force.com code development skills.

Prerequisites

Course participants should be familiar with the Salesforce UI and how to customize applications using the declarative capabilities.

What you will learn

When you complete this course, you'll be able to:

- Demonstrate the fundamentals of Force.com code development
- Describe object-oriented programming concepts
- Evaluate general use cases where Force.com code is a good solution
- Consider basic Force.com code syntax, available data types, and potential use of each
- List the ways Force.com code can be invoked
- Compare and contrast the different types of collections
- Write SOQL for loops to handle bulk data
- Review execution order and where before and after triggers execute
- Test the different governor limits and contexts
- Create a unit test for a class using assertion methods
- Understand the requirements, steps, and tools available for deploying Force.com code

“I took three salesforce.com training classes, which were amazing. There were so many ‘aha’ moments.”

John Woods
Director of Security
eRX Network

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Course Outline: Introduction to Object-Oriented Programming with Force.com Code

Topic	Objective
Introduction to Force.com Code	<ul style="list-style-type: none"> ▪ Overview, including Force.com code in the salesforce.com stack, environment requirements, usage scenarios, the development lifecycle, execution methods, and salesforce.com objects and fields ▪ An introduction to object-oriented programming, classes, and objects ▪ Installation and development using the Force.com IDE
Force.com Building Blocks	<ul style="list-style-type: none"> ▪ Classes, variables and methods, and data objects ▪ Data objects and relationships between objects ▪ Force.com code variables, data types, and expressions ▪ Best practices for formatting, commenting, and naming conventions
Force.com Code Class Construction	<ul style="list-style-type: none"> • Classes and objects, including passing and returning variables, encapsulation, conditions and logic flow control, loops, and exception handling
Force.com Triggers and Data	<ul style="list-style-type: none"> ▪ Introduction to Force.com triggers, including when to use a trigger, order of execution, creation and development considerations, and governors and limitations ▪ An introduction to querying data with SOQL and SOSL ▪ Data Manipulation Language (DML)
Testing, Debugging, and Deployment	<ul style="list-style-type: none"> ▪ Debugging scenarios, methods, and tools ▪ Test classes, unit testing, testing requirements and strategies, and considerations and best practices ▪ IDE testing and an overview of Salesforce CRM UI testing ▪ Deployment checklist and preparation steps ▪ Force.com IDE deployment



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