

# Apex & Visualforce Controllers

## DEV501

### Duration

5 days

### Delivery Format

Classroom

### Certification

DEV501 prepares you to take the Salesforce.com Certified Force.com Advanced Developer exam. The exam is included in the price of the course.



**Apex & Visualforce Controllers** is perfect for developers who want a deep dive into Force.com capabilities to build and deploy Force.com applications. This hands-on course covers the Apex programming language, including Visualforce controllers.

### Who Should Take this Course?

This course is ideal for those familiar with the declarative capabilities of the Force.com platform who want to expand into Apex and Visualforce controllers.

**Note:** This course prepares you to take the Salesforce.com Certified Force.com Advanced Developer exam. The exam is included in the price of the course.

### Prerequisites

- :: Previous experience with or certification in a modern, object-oriented programming language such as Java or C#
- :: Basic XML skills
- :: Familiarity with Eclipse and application lifecycle management
- :: Understanding of data modeling and user interface development principles

**Note:** Bundled with this course are two online courses that are included with the price of the course which cover Visualforce Pages and Managing Development with Force.com. These courses should be completed before attending the course.

It is recommended, but not required, that participants complete DEV401 Building Applications with Force.com & Visualforce and/or become a Certified Force.com Developer before attending this class.

### What You Will Learn

When you complete the course, you will be able to use the capabilities of the Force.com platform to develop or extend software-as-a-service (SaaS) applications

- :: Develop custom Apex code
- :: Create Apex triggers to take action when records are saved
- :: Develop using the Force.com Sandbox testing environment
- :: Write Visualforce controllers to manage custom data sets and actions for pages
- :: Create multi-page wizards, maintaining a unified view state across the experience

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“I have been waiting for a certification program that validates my skill set.”

— A.J. Dellicicchi  
Senior Developer

### Course Outline: Apex & Visualforce Controllers (DEV501)

#### Apex

- ⚡ Learn about Apex features compared to other programming languages
- ⚡ Learn about use cases for which Apex is a good solution
- ⚡ Learn about Apex access modifiers
- ⚡ Learn about available Apex object types
- ⚡ Learn about types of collections
- ⚡ Learn the syntax for including SOQL queries within Apex
- ⚡ Write SOQL for loops to handle bulk data
- ⚡ Learn about the two types of DML statements
- ⚡ Use limit statements
- ⚡ Learn about the Save execution order and when “before” and “after” Apex triggers fire
- ⚡ Learn about the types of governor limits and contexts
- ⚡ Code Apex triggers to handle bulk data
- ⚡ Create a unit test for a previous class, using assertion methods, and run a test
- ⚡ Write a Web services class
- ⚡ Consume an external WSDL and access it through Apex
- ⚡ Learn the arguments to send an email from Apex
- ⚡ Create a Salesforce email domain and code a class to consume email

#### Visualforce Controllers

- ⚡ Explore the functionality of each Visualforce standard controller
- ⚡ Code custom controllers and extensions
- ⚡ Use testing, debugging, and deploying controllers capabilities
- ⚡ Learn the basics of testing controllers vs. regular Apex classes

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