

Apex & Visualforce Controllers



This comprehensive, hands-on course is perfect for developers who want a deep dive into using Apex to build, extend, and deploy Salesforce applications on the Force.com platform. This course also covers Visualforce controllers, which allow developers to specify what happens when a user interacts with the components specified in associated Visualforce markup.

Who should take this course?

Apex & Visualforce Controllers is designed for developers needing to extend the functionality of their Salesforce applications programmatically. Developers should have a thorough understanding of object-oriented programming concepts as well as experience customizing Salesforce applications using the Force.com declarative capabilities.

It is recommended that developers without object-oriented programming experience attend Introduction to Object-Oriented Programming using Apex (ADM231).

Prerequisites

- Experience building applications using the Force.com declarative features or completion of Building Applications with Force.com (DEV401).
- Completion of the eLearning course “Managing Development with Force.com”. Access to the eLearning will be provided after you register for the Apex & Visualforce Controllers course. You should complete the eLearning before attending class.
- Experience with Visualforce. You can gain Visualforce experience by completing the "Getting Started with Visualforce" eLearning course available via <http://help.salesforce.com> and the publicly available, online Visualforce Workbook.

What you will learn

When you complete the course, you'll be to:

- Write, test, and deploy Apex code, including triggers, controllers, ad-hoc statements, and batch.
- Use development tools, including the Force.com IDE, to author Apex.
- Create Apex web services and callouts to external web services.
- Create, insert, update, delete and retrieve application data using DML, SOQL, and SOSL.
- Send and receive emails using Apex.
- Create multi-page wizards.

Duration

5 days

Delivery Format

Classroom; for self-paced online training, visit www.salesforce.com/premier to learn about our subscription-based training and support solutions.

Certification

Apex & Visualforce Controllers is recommended as preparation for the Salesforce.com Certified Advanced Developer exam.

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

A.J. Dellicicchi
Senior Developer

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Course Outline: Apex & Visualforce Controllers

Topic	Objective
Force.com Code (Apex)	<ul style="list-style-type: none"> ▪ Describe the features, functionality, and use cases of Apex ▪ Describe the data types and syntax of Apex ▪ Describe how multi-tenancy affects Apex ▪ Write queries and complex joins using SOQL ▪ Write text-based searches using SOSL ▪ Manipulate data using Apex DML ▪ Write Apex triggers to automate code ▪ Describe the testing requirements of the Force.com platform ▪ Write Apex tests ▪ Create Apex web services using REST and SOAP ▪ Create callouts to external web services ▪ Send and receive email from Apex ▪ Write asynchronous Apex (batch, @future, and scheduled) ▪ Describe the capabilities of custom settings
Visualforce Controllers	<ul style="list-style-type: none"> ▪ Understand the Visualforce framework, including its advantages and capabilities ▪ Use expressions to bind data and actions on a page to a controller ▪ Understand the concepts behind controllers, including their functionality and capabilities ▪ Create custom controllers and standard controller extensions to incorporate new data and actions into a page ▪ Understand the security implications of using custom vs. standard controllers ▪ Implement wizards using custom controllers to handle the state and operations ▪ Create custom components that use custom controllers ▪ Test, debug, and deploy controllers



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