



PROGRAMMATIC DEVELOPMENT USING APEX AND VISUALFORCE: DEX- 450

TRAINING THE
TRAILBLAZERS
OF TOMORROW



< ISDI >

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Programmatic Development Using Apex and Visualforce is a comprehensive, week-long course for individuals who wish to understand how to customize applications programmatically on the Force.com platform. In this course, students will learn the core of the Apex programming language & Visualforce markup. Students will experience building data objects (sObjects) & programmatically retrieving, manipulating, & storing the data associated with those objects. The time is now to start your journey on the path to being a trailblazer in the Salesforce ecosystem. Join and take the first step towards a future of new opportunities.

> Course highlights

This course is designed for programmatic developers who are new to the Force.com platform, who need to be able to write programmatic customizations to both the business logic and user interface layers using Apex and Visualforce.



One week, in-person



Taught in Spanish
Materials in English



ISDI, Digital Acceleration Center
(Viriato 20, Madrid)



Salesforce certified instructors



40 hours of classroom training
(TBD)



Small class size allows more
personalized learning

> Outcomes

Upon completion of the Programmatic Development Using Apex and Visualforce: DEX-450, you will be able to:

1. Create and modify objects using the declarative interface
2. Write business logic customizations using Apex triggers and classes. Those customizations will use SOQL and DML.
3. Design programmatic solutions that take advantage of declarative customizations
4. Describe how your trigger code works within the basics of the Save Order of Execution Describe some of the fundamental aspects of designing programs on a multi-tenant platform

Write Visualforce markup and code to customize the user interface. Use the built-in testing
5. framework to test Apex and Visualforces

> Aimed at

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> Content & Methodology

Objects and Fields

- Describe the capabilities of objects on the Force.com platform
- Create a custom object
- Create custom fields
- Create relationship fields

Work Effectively with Custom Obj & Fields

- Create formula fields
- Create roll-up summary fields
- Describe the capabilities of record types

Programming with Apex

- Describe key aspects of Apex that differentiate it from other languages, such as Java and C#
- Describe why Apex transactions and governor limits must be considered when writing Apex
- Execute simple Apex
- Use the Object data type, the primitive data types, and basic control statements in Apex

Use SOQL to Query Your Org's Data

- Write a basic query using Salesforce's query language, SOQL
- Process the result of a query in Apex
- Create a query dynamically at run-time

SOQL to Query Parent-Child

- Describe a relationship query
- Write a query that traverses a child-to-parent relationship
- Write a query that traverses a parent-to-child relationship

DML Essentials

- List the differences between the ways you can invoke DML operations
- Write Apex to invoke DML operations and handle DML errors

Trigger Essentials

- Describe what a trigger is used for
- Describe the syntax of a trigger definition
- Use trigger context variables

Classes

- Describe how Apex classes are used
- Define an Apex class
- Determine what data an Apex class can access

Save Order of Execution & Apex Transactions

- Describe key points in the Order of Execution
- Describe how triggers fit into and can be impacted by the Order of Execution
- Describe the lifecycle of an Apex Transaction
- Describe the memory lifecycle for static variables

Testing Essentials & Strategies

- Describe Apex's testing framework
- Create test data
- Write and run an Apex test
- Describe practices for writing code that is easy to maintain and extend
- Write triggers and classes that assume batches of data as input
- Write code that works efficiently with the database, both in querying and using DML



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