Build Applications Programmatically on the Salesforce Platform (DEX450)

OEM: Salesforce • Duration: 5 Days (40 hrs) • Code: DEV-450

COURSE MODULES & TOPICS

Module 1: No-Code Automation

- Create Formula Fields
- Create Roll-Up Summary Fields
- Understand Record Types and Dynamic Forms
- Review Additional Automation Tools
- Build a Data Model on the Salesforce Platform

Module 2: Apex Coding

- Define Apex and describe key aspects
- Identify key characteristics of Apex
- Examine transactions and Governor Limits
- Build and execute simple Apex
- Discover sObjects, primitive data types, and basic control statements

Module 3: Org Data Retrieval Using SOQL and SOSL

- Write basic and dynamic SOQL queries
- Process query results with Apex
- Query parent-child relationships
- Write child-to-parent and parent-to-child relationship queries
- Search data with SOSL

Module 4: Org Data Manipulation Using DML

- Define DML
- Identify methods for invoking DML operations
- Use Apex to invoke DML operations and handle DML errors

Module 5: Deployment

- Deploy code using Change Sets
- Use the Ant Migration Tool
- Examine Managed, Unmanaged, and Unlocked Packages

- Explore Salesforce DX and DevOps Center

Module 6: Apex Trigger Essentials

- Define Apex Triggers and use cases
- Examine Trigger definition syntax
- Use Trigger Context Variables

Module 7: Apex Class Essentials

- Define Apex Classes and use cases
- Identify Apex Class data access capabilities

Module 8: Save Order of Execution, Apex Transactions, and Platform Events

- Define the Salesforce Save Order of Execution
- Discover how Order of Execution affects Triggers
- Examine the Apex Transaction Lifecycle
- Implement Error Logging Using Platform Events

Module 9: Apex Testing

- Define the Apex Testing Framework
- Create Apex Test Data
- Write and run Apex Tests
- Review Apex Testing Best Practices

Module 10: Design Strategies for Efficient Apex Solutions

- Identify Apex code-writing best practices
- Write Apex Triggers and Classes using input data batches (Bulkification)
- Write efficient database querying and DML code

Module 11: Apex Trigger Design Strategies

- Implement complex business logic using declarative solutions
- Improve pro-code solutions using no-code functionality

Module 12: Visualforce

- Create a Visualforce Page
- Display record data in a Visualforce Page
- Reference a Standard Controller
- Examine Custom Controllers and Controller Extensions
- Write tests for controller constructors, action methods, getters, setters, and properties

Module 13: Lightning Components

- Create and surface Aura Components
- Create custom Lightning Web Components
- Retrieve and display record data
- Utilize Lightning Web Component Events
- Perform a DML operation