

PD1: Salesforce Platform Developer I

Build custom business logic and interfaces on Salesforce with Apex and Lightning Web Components.

DURATION

5 days · 40 hours

LEVEL

Intermediate

CURRICULUM

15 modules · 8 labs

DELIVERY

Live online, Onsite,
Corporate

Course overview

When configuration is not enough, Salesforce developers extend the platform with code. The Platform Developer I certification checks that you can do this safely, within the platform's multi-tenant limits. This five-day course teaches the fundamentals hands-on, with a strong focus on writing code that scales.

Day one covers developer fundamentals: the multi-tenant architecture, governor limits, the data model from a developer's perspective, declarative versus programmatic choices, and setting up Visual Studio Code with the Salesforce CLI. Day two introduces Apex — data types, collections, classes and object-oriented design — along with SOQL, SOSL and DML.

Day three focuses on business logic: triggers and trigger frameworks, bulkification, the order of execution, exception handling, and asynchronous Apex with future methods, queueable, batch and scheduled jobs. Day four covers user interfaces with Lightning Web Components — templates, data binding, events, calling Apex and Lightning Data Service — plus an overview of Visualforce.

Day five covers testing, debugging and deployment: test classes and data factories, code coverage, debug logs, scratch orgs, sandboxes and deployment tools, followed by exam readiness.

This course is aligned to the Salesforce Certified Platform Developer (PD1) exam. Ace Skills is not a Salesforce partner and does not use official courseware. Please confirm the current exam guide on Trailhead before booking.

Highlights

- 40 hours of live, trainer-led sessions
- Hands-on coding in your own Salesforce org
- Apex, SOQL, SOSL and governor limits
- Triggers, asynchronous Apex and testing
- Lightning Web Components from scratch

What's included

- Personal Salesforce Developer Edition org
- VS Code and Salesforce CLI setup
- Bulkified triggers and governor-limit awareness
- Asynchronous Apex patterns
- Lightning Web Components labs
- Test classes and deployment practice
- Course completion certificate from Ace Skills Consulting
- Post-training doubt support

Who this course is for

Who should attend

- Salesforce administrators moving into development
- Java, C# or JavaScript developers new to Salesforce
- Junior Salesforce developers
- Technical consultants on Salesforce projects

Prerequisites

- Programming experience in an object-oriented language
- Basic JavaScript and HTML for the LWC sections
- Familiarity with Salesforce administration is recommended

Detailed curriculum — 5 days, 40 hours, 15 modules, 8 hands-on labs

Day 1 Developer Fundamentals

8 hours

1.1 Platform architecture

- Multi-tenancy and governor limits
- Declarative vs programmatic solutions
- MVC on Salesforce
- AppExchange and packaging overview

1.2 Developer tooling

- VS Code and Salesforce extensions
- Developer Console
- Salesforce CLI
- Scratch orgs and sandboxes

LAB Set up VS Code and deploy metadata to your org · 40 min

1.3 Data model for developers

- Objects, fields and relationships
- Custom metadata and custom settings
- Schema considerations for code
- Formula fields vs code

Day 2 Apex, SOQL and DML

8 hours

2.1 Apex basics

- Data types and variables
- Control flow
- Sharing keywords
- Collections: List, Set and Map
- Classes, interfaces and inheritance

LAB Write an Apex service class · 45 min

2.2 Querying data

- SOQL syntax and relationships
- SOSL
- Aggregate queries
- Dynamic queries and injection risks

LAB Query related records with SOQL · 40 min

2.3 DML

- DML statements and Database methods
- Savepoints and rollback
- Partial success handling

Day 3 Triggers and Asynchronous Apex

8 hours

3.1 Triggers

- Trigger events and context variables
- Trigger handler pattern
- Recursion control
- Bulkification
- Order of execution

LAB Build a bulk-safe trigger with a handler class · 55 min

3.2 Exceptions and limits

- Exception handling
- Monitoring limits
- Custom exceptions

3.3 Asynchronous Apex

- Future methods
- Batch Apex
- Platform events overview
- Queueable Apex
- Scheduled Apex

LAB Process records with Batch and Queueable Apex · 45 min

Day 4 User Interface with Lightning Web Components

8 hours

4.1 LWC fundamentals

- Component structure
- Lifecycle hooks
- Templates and data binding
- Decorators

LAB Build a record summary component · 45 min

4.2 Working with data

- Lightning Data Service and wire adapters
- Error handling
- Calling Apex imperatively and with wire
- Base components

4.3 Component communication

- Parent-child communication
- Lightning Message Service
- Visualforce overview
- Custom events
- Deploying to pages

LAB Build a searchable list component that calls Apex · 60 min

Day 5 Testing, Deployment and Exam Readiness

8 hours

5.1 Testing

- Test classes and methods
- Code coverage requirements
- Mocking callouts
- Test data factories
- Testing triggers and async Apex

LAB Write tests to cover the week's code · 60 min

5.2 Debugging and deployment

- Debug logs and checkpoints
- Change sets and CLI deployments
- Deployment options
- Environment strategy

5.3 Exam readiness

- Exam guide review
- Practice questions with review
- Code-reading practice

The diagram is divided into two main sections: 'Skills you will build' on the left and 'Tools used in class' on the right. Each section contains a collection of rounded rectangular boxes representing individual skills or tools. The 'Skills you will build' section includes Apex, SOQL, SOSL, DML, Apex triggers, Governor limits, Asynchronous Apex, Lightning Web Components, Apex testing, Salesforce CLI, and Salesforce deployment. The 'Tools used in class' section includes Salesforce Developer Edition, Visual Studio Code, Salesforce CLI, Developer Console, and Git.

Skills you will build

- Apex
- SOQL
- SOSL
- DML
- Apex triggers
- Governor limits
- Asynchronous Apex
- Lightning Web Components
- Apex testing
- Salesforce CLI
- Salesforce deployment

Tools used in class

- Salesforce Developer Edition
- Visual Studio Code
- Salesforce CLI
- Developer Console
- Git

This course is aligned to the exam below and prepares you for it. The exam itself is booked and taken with the vendor.

Exam	Salesforce Certified Platform Developer
Exam code	PD1
Official page	https://trailhead.salesforce.com/credentials/platformdeveloper

- Development, compilation and logic
- Testing, debugging and deployment

Exam details are pending verification. Confirm the current exam code, format and fee on the official vendor page before booking.

Do I need to know Salesforce administration first?

It is strongly recommended. Developers need to understand the data and security model before writing code.

Which languages are used?

Apex (similar to Java) for back-end logic, and JavaScript and HTML for Lightning Web Components.

Is Visualforce covered?

It is introduced for context; the focus is on Lightning Web Components, which new projects use.

Is this an official Salesforce course?

No. It is an independent Ace Skills course aligned to the Platform Developer exam guide.

Book a batch or talk to an advisor

Course page: aceskillsconsulting.com/course/pd1-salesforce-platform-developer-i · Email: info@aceskillsconsulting.com

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