

Salesforce Platform Admin + Development (Apex + LWC) – 110 Hours

MODULE 1: Salesforce Platform Fundamentals (6 Hours)

- What is CRM and Salesforce Platform
 - Salesforce Editions and Licensing Overview
 - Lightning Experience vs Classic
 - Salesforce Architecture Overview (Multi-tenant)
 - Standard vs Custom Objects
 - Fields and Data Types
 - Record Structure and UI Overview
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MODULE 2: User Management and Security Model (10 Hours)

- Users, Profiles, and Permission Sets
 - Login Access Policies and IP Restrictions
 - Organization-Wide Defaults (OWD)
 - Role Hierarchy
 - Sharing Rules (Owner-based and Criteria-based)
 - Manual Sharing
 - Public Groups and Queues
 - Field-Level Security
 - Record-Level vs Object-Level Security
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MODULE 3: Data Modeling and Management (10 Hours)

- Standard vs Custom Objects
- Lookup vs Master-Detail Relationships
- Junction Objects
- Schema Builder
- Field Types and Field Dependencies
- Validation Rules
- Roll-Up Summary Fields

- Data Import Wizard
 - Data Loader (Insert, Update, Upsert, Delete)
 - Duplicate Management
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MODULE 4: UI Customization (6 Hours)

- Page Layouts
 - Record Types
 - Lightning App Builder
 - Dynamic Forms
 - Compact Layouts
 - Custom Buttons, Links, and Actions
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MODULE 5: Business Process Automation (12 Hours)

- Workflow Rules (Concept and Use Cases)
 - Process Builder Overview
 - Introduction to Flow Builder
 - Types of Flows:
 - Screen Flow
 - Record-Triggered Flow
 - Scheduled Flow
 - Flow Elements and Logic
 - Approval Process (Step-by-step)
 - Debugging Flows
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MODULE 6: Reports and Dashboards (6 Hours)

- Report Types
- Tabular, Summary, Matrix Reports
- Filters and Cross Filters
- Bucket Fields

- Dashboard Components
 - Dynamic Dashboards
 - Report and Dashboard Security
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MODULE 7: Introduction to Salesforce Development (4 Hours)

- Overview of Salesforce Development Lifecycle
 - Introduction to Apex
 - Developer Console and VS Code Overview
 - Governor Limits Concept
 - Multitenancy Impact on Development
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MODULE 8: Apex Programming Fundamentals (12 Hours)

- Apex Syntax and Structure
 - Data Types and Variables
 - Operators
 - Conditional Statements
 - Loops (for, while)
 - Collections:
 - List
 - Set
 - Map
 - SOQL (Salesforce Object Query Language)
 - SOSL Basics
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MODULE 9: Apex Database and DML Operations (8 Hours)

- DML Statements:
 - Insert, Update, Delete, Upsert
- Database Methods
- Partial Success Handling

- Transactions and Savepoints
 - Exception Handling in Apex
 - Bulkification Best Practices
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MODULE 10: Apex Triggers (10 Hours)

- Trigger Syntax and Structure
 - Trigger Context Variables
 - Before vs After Triggers
 - Trigger Events (Insert, Update, Delete, Undelete)
 - Bulk Trigger Design
 - Trigger Framework Concept
 - Recursion Handling
 - Best Practices
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MODULE 11: Apex Classes and Advanced Concepts (8 Hours)

- Classes and Objects in Apex
 - Access Modifiers
 - Static vs Instance Methods
 - Constructors
 - Wrapper Classes
 - Collections in Depth
 - Asynchronous Apex (Future Methods, Queueable Basics)
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MODULE 12: Testing in Apex (6 Hours)

- Importance of Testing
- Test Class Structure
- Test Methods and Annotations
- Test Data Creation
- Test.startTest() and Test.stopTest()

- Code Coverage Requirements
 - Best Practices for Testing
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MODULE 13: Lightning Web Components (LWC) Fundamentals (6 Hours)

- Introduction to LWC Framework
 - LWC vs Aura Components
 - Project Structure
 - HTML, JavaScript, and CSS in LWC
 - Component Lifecycle Hooks
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MODULE 14: LWC Development (8 Hours)

- Data Binding
 - Event Handling
 - Parent-Child Communication
 - Conditional Rendering
 - Iteration (Loops)
 - Working with UI Components (Lightning Base Components)
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MODULE 15: LWC and Apex Integration (8 Hours)

- Calling Apex from LWC
- @wire Decorator
- Imperative Apex Calls
- Handling Responses and Errors
- Working with LDS (Lightning Data Service)
- CRUD Operations via LWC