

Salesforce Admin & Development Syllabus

MODULE 1: Salesforce Platform Fundamentals

- Introduction to Salesforce CRM
 - Salesforce Ecosystem & Clouds Overview
 - Multitenant Architecture
 - Salesforce Editions & Licenses
 - Salesforce Environment Setup (Production Org, Sandbox)
 - Standard Objects vs Custom Objects
 - Salesforce UI & Navigation
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MODULE 2: User Security Model

- Users, Profiles & Permission Sets
- Role Hierarchy
- Login IP Restrictions
- Password Policies & Session Settings
- Permission Set Groups
- Delegated Administration

- Authentication Methods Overview
 - Single Sign-On (SSO)
 - Multi-Factor Authentication (MFA)
 - User Access Troubleshooting
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MODULE 3: Data Model & Data Management

- Object Relationships
 - Lookup Relationship
 - Master-Detail Relationship
 - Junction Objects
 - Field Types & Field Dependencies
 - Schema Builder
 - Validation Rules
 - Record Types & Page Layouts
 - Data Import Wizard
 - Data Loader
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MODULE 4: Data Security Model

- Organization-Wide Defaults (OWD)

- Role Hierarchy vs Sharing
 - Sharing Rules
 - Owner-Based
 - Criteria-Based
 - Manual Sharing
 - Team-Based Access
 - Account Teams
 - Opportunity Teams
 - Case Teams
 - Field-Level Security (FLS)
 - Record-Level Security
 - Data Visibility Best Practices
 - Real-Time Security Scenarios
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MODULE 5: Salesforce Automation (Admin Perspective)

- Overview of Salesforce Automation Tools
- Salesforce Flow (Core Focus)
 - Screen Flows
 - Record-Triggered Flows

- Scheduled Flows
 - Autolaunched Flows
 - Approval Processes
 - Flow Security & Error Handling
 - When to Use Flow vs Apex
 - Automation Best Practices
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MODULE 6: Reports, Dashboards & Analytics

- Report Types
 - Standard Reports
 - Custom Report Types
- Report Formats
 - Tabular
 - Summary
 - Matrix
 - Joined Reports
- Dashboard Components
- Dynamic Dashboards
- Row-Level Security in Reports

- Report Subscriptions & Scheduling

MODULE 7: Salesforce Development Fundamentals

- Declarative vs Programmatic Development
- Salesforce MVC Architecture
- Introduction to Apex
- Apex Execution Context
- Governor Limits Overview

MODULE 8: Apex Programming

- Apex Syntax & Data Types
- Collections
 - List
 - Set
 - Map
- SOQL & SOSL
- DML Operations
- Apex Exception Handling
- Bulkification & Performance Optimization

- Secure Coding Best Practices
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MODULE 9: Triggers & Order of Execution

- Trigger Basics
 - Before vs After Triggers
 - Trigger Context Variables
 - Salesforce Order of Execution
 - Trigger Framework & Best Practices
 - Recursion Control Techniques
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MODULE 10: Asynchronous Apex

- @Future Methods
 - Queueable Apex
 - Batch Apex
 - Scheduled Apex
 - Use Cases & Governor Limits
 - Error Handling & Monitoring
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MODULE 11: Apex Security (Developer Perspective)

- Apex Sharing Keywords
 - with sharing
 - without sharing
 - inherited sharing
 - Enforcing CRUD & FLS in Apex
 - Secure SOQL & DML
 - Common Security Pitfalls
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MODULE 12: Apex Testing & Debugging

- Test Classes & Code Coverage
 - @isTest Annotation
 - Test Data Factory
 - SeeAllData Usage
 - Debug Logs
 - Deployment Readiness
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MODULE 13: Lightning Web Components (LWC)

- JavaScript Basics
- Introduction to LWC

- LWC Architecture
- LWC Component Bundle
- Component Lifecycle
- Data Binding & Events
 - One-Way Data Binding
 - Two-Way Data Binding
- Component Communication
 - Parent to Child
 - Child to Parent
 - Unrelated Components
- Apex Integration
 - @wire Service
 - Calling Apex from LWC
 - Imperative vs Wired Calls
- Lightning Data Service (LDS)
- Advanced LWC Concepts
 - Reusable Components
 - Custom Labels
 - Static Resources
 - Custom Permissions

- Navigation Service
 - Toast Notifications
 - Performance Optimization
 - LWC Security Best Practices
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MODULE 14: Integrations & APIs

- Salesforce Integration Overview
- REST API Basics
 - REST Architecture Concepts
 - HTTP Methods (GET, POST, PUT, DELETE)
 - HTTP Status Codes
- Apex Callouts (Outbound Integrations)
 - HTTP Callouts
 - Request & Response Handling
 - JSON Parsing
 - Exception Handling
 - Callout Best Practices
- Inbound Integrations
 - Apex REST Services

- @RestController Annotation
 - Request Handling & Validation
 - Named Credentials
 - Connected Apps
 - Authentication Methods
 - Username-Password Flow
 - OAuth 2.0 (Overview)
 - API Testing using Postman
 - Error Handling in Integrations
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MODULE 15: Real-Time Projects & Use Cases

- Admin Projects – 2
- Development Projects – 2
- 2–3 End-to-End Capstone Projects
- Notes & Question Banks
- Lifetime Access to Recordings