

# Salesforce Admin & Developer Training Course Curriculum



# Salesforce Admin & Dev – Course Curriculum

## Administrator Sessions

- Introduction to Cloud computing and Salesforce Administration
  - Basics of cloud computing, Salesforce Architecture, Salesforce Org, Salesforce Fundamentals
- Modelling Data in Salesforce
  - Conventional DB tables vs Objects, Standard vs Custom objects, Objects, Fields, Relationships, Schema Builder, Field Types, Record Types, Page Layouts, Lookup Filters and Search Layouts
- User & Data Management
  - What is a user, Types of users and licenses, creating a user, unlock user, freeze/unfreeze user, Inactivate user, Salesforce Inspector, DQL, DML, Other data management tools
- Profiles, Permissions, Implementation in a Custom Application
  - What is a Profile and the features it controls, what is a Permission set and the features it controls, Profile vs Permission set, Custom Permission, Permission Set Groups, Best Practices
- Security and Access Management
  - Org Level, Object Level, Record Level and Field Level security, how object and Record level access work together, Queues and Public groups
- Formulas, Validations, Rollups and Approvals
  - Formula Operators, Validation Rules, Rollup Summaries and Standard Approval Processes, applications of all of these concepts
- Flows – Part I
  - Types of Flows, Resources and Elements, Screen Flow, Debug a Flow, Limitations of a Flow
- Flows - Part II
  - Auto Launched Flow, Record Triggered Flow and Scheduled Flow
- Reports and Dashboards
  - Tabular, Summary, Matrix and Joined Reports, Formatting Reports, Creating & Sharing Dashboards
- Sales & Service Cloud + Refresher session
  - Sales cloud objects, Web to Lead, Lead conversion, Service cloud objects, Case management, Web to Case, Email to Case, Review of sessions 1 through 10

## Developer Sessions

- Introduction to Apex
  - Features of Apex, Developer Console and executing code, Data types, Variables, Constants, Arrays, Operators, List vs Map, Loops, Decision Making in Apex
- Querying and Manipulating Data using Apex
  - SOQL Basics, Select Queries, Parent to Child, Child to Parent, Query record in batches, Binding variables, DML Operations in Apex
- Apex Triggers and Methods
  - Syntax of a Trigger, Types of Triggers, Context Variables, Trigger Bulkification, Best Practices
- Apex Batch Classes
  - What is a Batch Apex and its Advantages, Apex vs Batch Apex, Methods, Execution, Job Statuses, Limitations of Batch Apex
- Apex Test Classes & Debugging
  - Assert Method, creating test data, Testing Triggers and Batch Apex, Debugging, Log Messages
- IDE/ Development Tools
  - VS Code, Install DX CLI and Extensions, create a project, Authenticate and retrieve org components, Create an Apex class in VS code, Deploy changes through VS code
- Customizing User Interface using AURA
  - Aura framework, Anatomy of Aura, Attributes and Expressions, Communication with Salesforce, Communication between two components, Communication between Child to parent & Parent to child, Debugging & styling in Aura, Creating your first Aura component
- Customizing User Interface using LWC
  - What is LWC, Advantages of LWC, LWC Basics, Aura vs LWC, Creating your first LWC component
- Deployment Tools
  - Introduction to Salesforce Environments, preparing for a deployment, Pre vs Post deployment changes, Using change sets, Limitations of change sets
- Final Refresher Session
  - Review of sessions 11 through 19