

## Salesforce Training Course Syllabus

### Salesforce Fundamentals

- What is Cloud Computing?
- What is Force.com Platform?
- Different Editions of Force.com
- Signup for Force.com Account
- Multi-tenant environment
- MVC pattern

### Salesforce Developer

#### Apex

#### Apex Fundamentals

- What is Apex
- When should I use Apex
- What are the Limitations of Apex

#### Apex Development Process

- Writing Apex
- Writing Tests
- Deploying Apex
- Apex Development Tools

#### Getting Started with Apex

- Creating a custom Object
- Adding an Apex Class
- Adding an Apex Trigger
- Adding a Test Class
- Deployment

#### Data Types

- Primitive Data Types
- sObject Types

#### Collections (Lists, Sets, Maps)

- Variables
- Expressions
- Assignments
- Conditional Statements (IF-ELSE)  
Loops (Do-While, While, For - Traditional, Iteration, SOQL)

## Exceptions

### **Classes, Interface & Properties**

- Defining Apex Classes
- Declaring Class Variables
- Defining Class Methods
- Using Constructors
- Access Modifiers
- Static & Instance methods and classes
- Interfaces and extending classes
- Enforcing object and field permissions
- Exception Handling

### **Data Manipulation using Apex**

- Querying using SOQL & SOSL
- DML Statements (Insert, Update, Upsert, Merge, Delete, Restore)
- Database DML Methods
- DML Exceptions and Error Handling
- Locking

### **Triggers**

- Trigger Syntax
- Trigger Context Variables
- Bulk Triggers
- Trigger Exceptions

### **Testing Apex**

- Why
- What
- How
- Running Test Methods

### **Deploying Apex**

- Using Change Sets
- Using Force.com IDE
- Using Force.com Migration Tool

### **Projects- Integration**

- SOAP and REST web services

### **Visualforce**

## **Visualforce Fundamentals**

- What is Visualforce
- Visualforce Architecture
- When to use Visualforce
- Benefits of Visualforce
- Tools for Visualforce Development

## **Getting Started with Visualforce**

- Creating your first page
- Adding fields to a Visualforce page (for displaying, accepting input, changing field labels, dependent picklists)
- Using the Visualforce Component Library
- Overriding an existing page with a Visualforce page
- Displaying Related List on a Visualforce Page
- Displaying Table of Data on a page
- Using Query String Parameters
- Rendering a page as a PDF
- Global variables, formulas, functions (Date and Time, Logical, Math, Text etc. and expression operators (Math, Logical, Text))

## **Creating re-usable components**

- Creating and using custom components
- Templating with Visualforce

## **Styling Visualforce Pages**

- Using Salesforce Styles
- Extending Salesforce Styles
- Using Custom Styles
- Using Static Resources

## **Standard Controllers**

- Using Standard Controllers
- Accessing Data through Standard Controllers
- Using Standard Controller Actions
- Validation Rules and Standard Controllers
- Checking Object Accessibility

## **Standard List Controllers**

- Associating with a Visualforce Page
- Accessing Data

- **Using Actions**
- **Pagination**
- **Using List Views**
- **Editing Records**

## **Custom Controllers & Controller Extensions**

- **Building custom controller and controller extension**
- **Building custom list controller**
- **Defining Controller Methods (Action, Getter, Setter, Navigation)**
- **Validation rules and custom controllers**
- **Using transient keyword**
- **Mass updating records with a custom list controller**
- **Considerations for creating custom controllers and extensions**
- **Apex Classes used in Visualforce Controllers**
- **Testing custom controllers and controller extensions**