

# Syllabus for Cloud Computing (Salesforce)



## Course Duration For Salesforce Course

- 8 Weekends (Weekend Batches only)

## Objective For Salesforce Course:

- To become a Salesforce Professional
- Work with our MNC partners in Salesforce

## Objective For Salesforce Course:

- Bsc, BCS, BCA, BE, B.Tech, MSc, MCS, MCA, M.Tech
- Knowledge of any OOPS based Programming languages like Java or C++



## Syllabus Cloud Computing (Salesforce)

### Basics of Cloud Computing

- ✓ Overview of each of three building blocks in cloud applications
  - SAAS
  - PAAS
  - IAAS
- ✓ Different Cloud Service providers

### Salesforce Architecture

- ✓ Introduction of MVC Architecture
  - Model
  - View
  - Controller
- ✓ Feature of Salesforce

### Database Concepts

- ✓ Overview of Database Concepts
- ✓ Database structure
- ✓ Normal Database Vs. Relational Database
- ✓ Database concept in Salesforce platform

### Sales cloud / Service Cloud

- ✓ Introducing the Force.com Platform
- ✓ Understanding the basic of sales application with Standard Object
- ✓ Understanding Service cloud

### Objects and Fields

- ✓ Building a Simple App
- ✓ Becoming familiar with the Force.com Setup Area
- ✓ Introduction of Custom Objects
- ✓ Introduction of Tabs
- ✓ Understanding concept of Standard & custom field
- ✓ Basics of External ID & different types of field data type

### Relationships

- ✓ Utilizing different Types of Relationship
- ✓ Understanding Lookup and Master Detail relationship with Use case
- ✓ Differentiation between One-to-Many and Many-to-Many
- ✓ Introduction of Primary-Keys & Foreign-Keys (Conceptual Knowledge)
- ✓ Roll-up Summary Field
- ✓ Formula & Cross Object Formula Field

### Validation, Workflow rules and Lightning Process Builder

- ✓ Business Logic Implementation
- ✓ Rules for Automation
- ✓ Validation Rule (Run on highest priority for the App)
- ✓ Workflow (Time-Dependent & Time-Independent)
- ✓ Assignment Rule
- ✓ Creating a Process in the Process Builder with multiple actions
- ✓ Introduction and use of Record Type
- ✓ Introduction and use of Different Page-Layouts using Record-Type
- ✓ Process Builder details overview and Use cases

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## Data Management

- ✓ Data Management
- ✓ Introduction to Import-Wizard
- ✓ Use of External IDs
- ✓ Introduction & Use of Apex Data-Loader
- ✓ Use of different actions (Call) like Import, Update, Upsert, etc
- ✓ Difference between Import-Wizard & Data-Loader

## Security and Sharing

- ✓ Learn about factors to consider when designing applications for multiple users
- ✓ Create profiles, understand what a profile controls (including data access), and customize profiles to manage the user experience
- ✓ Create and customize permission sets to manage the user experience
- ✓ Customize the user experience with record types and page layouts
- ✓ Control access to records
- ✓ Employ organization-wide defaults (OWDs), sharing rules and levels, roles, public groups, and manual share
- ✓ Apply profiles, OWDs, role hierarchy, and sharing to restrict access to sensitive data
- ✓ Apply OWDs, public groups, and manual sharing to create conditional access to data
- ✓ Analyze suitability of field-level security, page layouts, types to satisfy business requirements

## Reports and Dashboards

- ✓ Report & Dashboard
- ✓ Introduction of Types of Report
  - Tabular Report
  - Summary Report
  - Matrix Report
  - Join Report
- ✓ Feature of the SFDC Report
- ✓ Custom Summary Formula field
- ✓ Bucket Filed
- ✓ Condition High-lighting
- ✓ Scheduling report for future run
- ✓ Drill down to the source report while click on the graphs
- ✓ Dashboards components
- ✓ Dashboard Running User concept

## Approval Process

- ✓ Approval Process :Single-step Approval ,Multi-steps Approval
- ✓ Differentiation between Workflow rule & Approval process
- ✓ Email to approve the request
- ✓ Understanding the order of Execution of all these rules

## Query Language in salesforce

- ✓ Basics of SOQL & SOSL
- ✓ Basics of Queries traversing from Child to Parent Object
- ✓ Basics of Queries traversing from Parent to Child Object
- ✓ Basics of aggregate Queries

## Apex & Trigger

- ✓ Complex Business Logic Implementation
- ✓ Introduction of Apex
- ✓ Implementation of Apex-Trigger
- ✓ Understanding & Use of Trigger

## VisualForce Pages

- ✓ Introduction of Visualforce Pages
- ✓ Difference between Standard Controller & (Custom) Controller

## Lightning Development

- ✓ Introduction to lightning framework
- ✓ Creating lightning component
- ✓ Using lightning in salesforce 1
- ✓ Fixing performance warnings

## Sites, Debug Logs

- ✓ Overview of other force.com capabilities
- ✓ Different type of Sandboxes and their usage
- ✓ Introduction of Site.Com and creation of site using it
- ✓ Introduction of Debug Logs

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## Test Class

- ✓ Learning Apex & Deployment Tools
- ✓ Introduction of Apex Classes
- ✓ Invoke a class or its method via Triggers
- ✓ Use as a Controller for a VF page
- Introduction of test class & methods to cover Apex

## Integration

- ✓ Integration using web service with real time business use cases.
- ✓ One way Integration , Two way integration

## Salesforce Einstein Analytics

- ✓ Setting up users and Apps
- ✓ Connecting Data
- ✓ Building dashboards with templates

## Deployment

- ✓ Manage Unmanaged Package
- ✓ Uploading package with Namespace
- ✓ Installing the package on Customer environment

## Project Details :

### Job Portal Management

In the Project, students will be creating an app, helping them get a hold of the technology in its complete form. Some custom pages will be created in the project like Candidate information, Job Application details and interlink them. It will work as small job portal. The students will need to implement the project under the careful guidance of the faculty.