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SALESFORCE
PLATFORM DEVELOPER I

Course Curriculum : Your 14 module Learning Plan

https://www.edureka.co/salesforce-platform-developer-1-certification-training

About Edureka

Edureka is a leading e-learning platform providing live instructor-led interactive online training. We cater to professionals and students across the globe in categories like Big Data & Hadoop, Business Analytics, NoSQL Databases, Java & Mobile Technologies, System Engineering, Project Management and Programming. We have an easy and affordable learning solution that is accessible to millions of learners. With our students spread across countries like the US, India, UK, Canada, Singapore, Australia, Middle East, Brazil and many others, we have built a community of over 1 million learners across the globe.

About Course

Edureka's Salesforce Platform Developer 1 Certification Training is designed to make you an expert in writing business logic and customizing applications programmatically using Apex code and Visualforce UI framework on the Force.com platform. It will also help you prepare for Salesforce Dev 450 Certification.

Course Curriculum

Introduction to Cloud Computing and SFDC

Learning Objectives: Get to know about Cloud computing concepts, SAAS, PAAS, IAAS – Service model, Public, Private, Community, and Hybrid Cloud models. You will also get an introduction to Salesforce Platform and its different development tools.

Topics:

- Service and Deployment models in the Cloud
- Market situation
- Cloud Ownership
- Introduction to SF1 and Force.com Platform
- Declarative & Programmatic Options in Force.com
- Meta-data Driven Architecture
- Multi-tenant Architecture
- Business and IT benefits
- Application Development Tools in Salesforce
- AppExchange as Application Development Strategy
- Finding and Navigating Salesforce Documentation
- Understanding Salesforce Trust

Hands-on:

- Navigation through Setup Menu
- Access Developer Console
- Access and Navigate Salesforce Documentation

Working on Custom Objects and Fields

Learning Objectives: In this module, you will get to know about the data modeling on the Salesforce Platform and how to work with standard and custom objects.

Topics:

- Standard and Custom objects
- Custom fields
- Relationship fields
- Formula fields
- Roll-up summary fields
- Junction Object
- Workflows and Process Builder

Hands-on:

- Custom Objects
- Custom Fields
- Relationship Fields
- Schema Builder
- Formula and Summary Fields
- Validation Rules
- Workflow Rules
- Lightning Process Builder

Data Management in SFDC

Learning Objectives: Learn how to import and export data on the Salesforce Platform.

Topics:

- Data Management in Salesforce
- Data Import Wizard and Data Loader
- Import Data
- Export Data
- Data export wizard

Hands-on:

- Data Import Wizard and Data Loader
- Import Data
- Export Data
- Data export wizard

Introduction to APEX Programming

Learning Objectives: In this module, you will learn about Apex Programming Language and various Apex Governor Limits.

Topics:

- APEX Introduction
- APEX Classes and Triggers
- Apex Development Process
- Apex Development tools
- Using Force.com IDE and Developer Console
- Apex Governor Limits

Hands-on:

- Installing Force.com IDE
- Creating Projects in Force.com IDE

- Developer Console

Data Types and Logic Control Statements in APEX

Learning Objectives: The module introduces you to the basic building blocks of Apex Programming Language.

Topics:

- Overview of Apex Data Types
- Primitive Data Types
- sObject Data Types
- Enum Data Types
- Collections Data Types
- Apex Operators
- Apex Control Statements
- Executing Apex Programs

Hands-on:

- Primitive Data Types and Debug Statement
- sObject and Enum Data Type
- Collections
- Controlling Statements & Looping Statements

APEX Classes

Learning Objectives: Learn different concepts of object-oriented programming in Apex.

Topics:

- Apex Classes
- Access Modifiers
- Apex Class Constructors
- Apex Class Variables and Methods
- Inheritance, Sharing, and Interface
- 'This' keyword
- Accessing Apex Class
- System Classes and Methods

Hands-on:

- Creating Apex Class

sObject Relationships, Implementing SOQL and SOSL Queries

Learning Objectives: The module covers sObject relationships and how to perform data querying on the Salesforce Platform.

Topics:

- Standard Object and Field API Names
- Relationships in Apex
- SOQL Function, SOQL Bindings and SOQL For Loops
- Processing SOQL Query Output
- Dynamic Query Creation
- Relationship Query and its Types
- SOSL Query and its Implementation
- SOQL vs SOSL

Hands-on:

- Relationship While Creating an Object
- Relationship Names in Schema Explorer
- SOQL and SOSL Queries

Data Manipulation Language

Learning Objectives: In this module, you will learn about Data Manipulation Language along with transaction control.

Topics:

- Data Manipulation Language
- Loops in DML
- Database.DML Options
- Transaction Control
- Ways to invoke DML Operations
- Invoking DML Operations
- Handling DML Errors

Hands-on:

- DML Statements
- Invoking DML Methods

Trigger in APEX and APEX Transaction

Learning Objectives: Learn how to create Apex Triggers on the Salesforce Platform.

Topics:

- Apex Triggers and its Types

- The Save order of Execution
- Trigger Syntax and Events
- Trigger Context Variables
- Recursion in Triggers
- Bulk Field Triggers
- Trigger Helper Class Pattern
- Lifecycle of Apex Transaction
- Memory Cycle for Static Apex Variables

Hands-on:

- Working with Triggers

Exception Handling and Debugging in APEX

Learning Objectives: This module introduces you to the concepts of Exception Handling on the Salesforce Platform.

Topics:

- Exceptions
- Exception Statements
- System-Defined Exception
- Exception Methods
- Catching Different Exception Types
- Custom or User-Defined Exception Handling
- Debugging Using Debug Logs
- Anonymous Blocks - Another Debugging Tool

Hands-on:

- Exception Handling
- How to Set Up a Debug Log
- How to Read Debug Logs
- How to Set Up and View Debug Logs in the Developer Console
- How to Use Anonymous Block

Testing Essentials and Design Strategies

Learning Objectives: Learn how to implement testing methodologies in Apex to write error-free code along with testing best practices.

Topics:

- Apex Testing Framework
- Write and run Apex Tests
- Create Tests data
- Running Test Units
- Developer Console
- Force.com IDE
- Testing Best Practices
- Batch Testing
- Efficient test code for DML and Query
- Code Coverage

Hands-on:

- Running and executing Test classes

Deployment Strategies and Visualforce Pages

Learning Objectives: Know about the Application Development Lifecycle on the Salesforce platform and how to create Visualforce pages.

Topics:

- Application Development Lifecycle
- Different Development Environments
- Deployment - Migration of Applications and Components
- Best Practices for Deployment
- Introduction to Visualforce
- Creating Visualforce Page
- Launch Visualforce Page using Custom Button
- Fetching Records in a Visualforce Page
- Visualforce Best Practices
- Visualforce Governor Limits and Security Concerns
- Visualforce Strategies

Hands-on:

- Creating Sandbox
- Creating Visualforce Pages

Working with Controllers and Controller Extensions

Learning Objectives: The module covers different controllers in Apex and their methods.

Topics:

- Controller Architecture
- Controller Methods
- Standard Controllers
- Custom Controllers

- Visualforce Controllers
- Controller Extension
- Controller Constructors
- Deploying Controllers
- Testing Controllers
- Security Concerns in Controllers and Visualforce
- Controller and Visualforce Integration
- Page References
- Action Methods, Getters, Setters and Properties

Hands-on:

- Using different Controllers

Lightening Framework

Learning Objectives: In this module, you will learn about the Lightening Component Framework.

Topics:

- Overview of Salesforce Lightning
- Lightning Component Framework Structure
- Benefits of Using Lightning Component Framework

Projects

What are the system requirements for our Salesforce Platform Developer 1 (Dev 450) Course?

Participants are expected to have a PC with minimum 2GB RAM and a latest browser and internet connection. Windows or Mac is recommended Basic Adobe reader and Office tools or Google Docs will be handy.

How will I execute the practicals?

For executing the practicals, participants will be enabled to create a life-time free SFDC development environment on the Cloud. There are few simple tools that need to installed for specific topics which comprise around 10% of the total course and will be provided in that module.