

# MuleSoft DevOps Engineer with Azure Cloud

- 🚦 Module 01: Project Development Life Cycle
  - Waterfall Model
  - Agile Model
    - Scrum Explanation
    - Estimation
    - Story Point Estimations in Agile
    - Different Agile Estimation Techniques
  - Scrum master
  - Jira Ticketing tool
  - Agile Estimation Techniques: A True Estimation In An Agile Project
  - Scrum Team & their roles and responsibilities
  - Scrum Artifacts
  - Scrum Events
  
- 🚦 Module 02: Overview Of DevOps
  - Introduction to DevOps
  - Benefits of DevOps
  - DevOps Main Objectives
  - DevOps and Software Development Lifecycle
  - DevOps Stages
  - DevOps Delivery Pipeline
  
- 🚦 Module 03: Requirements/Project Gathering Tool (Azure DevOps board)
  - Manage teams, areas, and iterations.
  - Manage Work Items
  - Manage Sprints and Capacity
  - Customize Boards
  - Customize Team Process
  
- 🚦 Module 04: Version Control with Git
  - Version Control
  - Git Introduction
  - Git Installation
  - Commonly Used Commands in Git
  - Git Life cycle
  
- 🚦 Module 05: Cloud Codebase platform
  - SCM (GitHub / Azure repo)

- Create/Set an Azure account
- Organization
- Project
- Repository
- Branching strategy

#### Module 06: CI/CD Pipeline (Jenkin /Azure CI/CD)

- Pull Request
- Build
- Validation/deployment
- Release Pipeline
- Artifacts
- Stages
- Continuous Deployment Trigger
- Pre-Deployment Conditions
- Post-Deployment Conditions
- Yaml scripting
- Classic pipeline
- Introduction to Jenkins
- Jenkins Architecture
- Different Types of Jenkins Jobs
- Installation Jenkins
- Plugin Management in Jenkins

#### Module 07: Automated Testing

- Selenium Basic
- Selenium Integration with CICD Pipeline

#### Module 08: Code Quality Integration

- Sonar Qube
- An introduction to SonarQube
- Why SonarQube
- Running your first analysis
- The Seven Axes of Quality
- Languages SonarQube covers.
- Interface conventions

#### Module 09: Splunk Logging Framework

- Installation
- Integration with Mule Application

#### Module 10: Azure Cloud

- What do I need to think about before creating a virtual machine?
- Parts of a VM and how they're billed

- Availability
- Sizes and pricing

#### Module 11: Azure VM

- VM creation
- Software installation

#### Module 12: - Containerization Using Docker

- Containerization
- Docker
- Docker Architecture
- Install Docker
- Container Lifecycle
- Docker CLI
- Docker file
- Docker Image
- Docker Registry
- Docker Storage
- Docker Compose
- Docker Engine

#### Module 13: DevOps Implementation Salesforce

- Code validation
- Code deployment
- E-to-E integration to deploy code from the local remote environment.
- Live implementation

#### Module 14: Introduction to Maven

- Maven Installation
- Building Project
- Maven Build Life Cycle
- Maven POM Builds (pom.xml)

#### Module 15: Mulesoft On-Primes Setup

- Mule Runtime Download
- Mule Runtime Setup
- Mule Application Deployment for On-premise deployment
- Other
  - Kong Gateway
  - OpenShift container
  - Egress load balancer
  - Dynatrace monitoring