

Kubernetes for App Developers (LFD459)

Course Duration : 24 Hours

Course code : LFD459

1. Course Overview

The **Kubernetes for App Developers (LFD459)** course is designed for developers who want to build, deploy, and manage applications on Kubernetes. This course focuses on how application developers interact with Kubernetes to deploy cloud-native applications efficiently.

2. What you'll learn?

- Kubernetes concepts from a developer's perspective
- Creating and managing application deployments
- Working with services and networking
- Managing configuration and secrets
- Application scaling and updates

3. Target Audience

- Application developers
- Software engineers
- DevOps engineers
- Cloud-native application developers

4. Pre-Requisites

- Basic programming knowledge
- Understanding of containers (Docker basics)
- Basic Linux and networking concepts

5. Course Content (Modules)

Module 1: Kubernetes for Developers Overview

- Kubernetes basics for application development
- Kubernetes workflow

Module 2: Application Deployment

- Pods and Deployments
- ReplicaSets and services

Module 3: Configuration Management

- ConfigMaps and Secrets
- Environment variables

Module 4: Application Scaling and Updates

- Horizontal scaling
- Rolling updates and rollbacks

Module 5: Application Networking

- Service types
- Ingress basics

Module 6: Monitoring and Debugging Applications

- Logs and metrics
- Debugging application issues