

# Kubernetes with Applied DevOps-



## Training Format & Delivery

- **Duration:** 18 sessions, each 2 hours long
- **Format:** Available both remotely and in-person, featuring live coding and hands-on exercises
- **Structure:** 70% practical labs, 30% theory
- **Schedule:** Weekend batches with flexibility for custom scheduling
- **Delivery:** Includes live demonstrations and guided, supervised labs
- **Batch Size:** Small groups to encourage interaction and personalized Q&A

## High-Level Learning Objectives

- **CI/CD Pipelines:** Build repeatable pipelines for microservices
- **Containerisation:** Docker usage, image management
- **Kubernetes Operations:** Deploy and operate apps on clusters
- **Infrastructure as Code:** Terraform provisioning
- **GitOps Implementation:** ArgoCD for continuous deployment
- **Observability Stack:** Metrics, logs, tracing, alerting

## Capstone Project

- Goal: Build a resilient CI/CD platform for a microservices app Components
- Microservices in Git repos
- Jenkins pipelines
- Docker registry (DockerHub)
- Terraform infrastructure
- Kubernetes deployments (Helm/manifests)
- ArgoCD GitOps deployment
- Observability with Prometheus, Grafana, Loki

## 5-Session Breakdown

- **Git (3 hrs):** Branching workflows, pull requests, hooks
- **Terraform (4 hrs):** IaC with HCL, cloud provisioning
- **Jenkins (5 hrs):** Pipeline-as-code, build agents
- **Docker (6 hrs):** Dockerfile best practices, registries
- **Kubernetes (10 hrs):** Deployments, services, RBAC
- **ArgoCD (4 hrs):** GitOps workflows, app-of-apps pattern
- **Observability (4 hrs):** Prometheus, Grafana, Loki

## Assessments & Certification

- Final capstone demo (CI/CD pipeline, dashboards, safe deployments)
- Optional theory quiz
- Certificate issued by **Traica Solutions**

## Who Should Attend

- Developers & SREs building CI/CD and cloud-native platforms
- Infrastructure engineers adopting GitOps & observability practices
- Platform engineers seeking hands-on Kubernetes expertise

## Call to Action

Reserve dates or request a quote:

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