



www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

DevOps & Cloud + Generative AI Training Program

Course Overview

Master DevOps. Automate with AI. Build Future-Ready Cloud Skills.

Upgrade your career with the most powerful combination of new skills — DevOps + Cloud Computing + Generative AI.

This training is designed **for IT professionals, freshers, system admins, cloud learners, and software engineers who want to become AI-enhanced DevOps Engineers.**

Full Course Modules

MODULE 1: DevOps Fundamentals

- What is DevOps?
- SDLC, Agile & Scrum
- DevOps tools overview
- DevOps workflows & automation lifecycle

MODULE 2: Linux Essentials for DevOps

- Linux commands
- Shell scripting
- User & permission management
- File systems & package handling

"Discipline Gives Everything"

Head Office



#131-5J, 1st Floor, Bharath Building, Swamy
Nellaiappar High Road, SriPuram, Tirunelveli,
TamilNadu, India – 627 001.

Corporate Office

#4, 7th floor Karimpanal Statue Avenue, G.H
Road, Statue, Thampanoor, Trivandrum,
Kerala, India - 695 001.



www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

MODULE 3: Git & GitHub (Version Control)

- Git basics & workflows
- Branching strategy
- GitHub Actions (Hands-on CI/CD)
- Using Gen AI for writing Git commits & documentation

MODULE 4: CI/CD Pipeline Automation

- Jenkins installation
- Pipelines (Freestyle & Declarative)
- Integrating Git, Maven, Docker
- ChatGPT/Claude for pipeline generation

MODULE 5: Docker (Containerization)

- Docker images & containers
- Dockerfile creation
- Docker Compose
- AI-generated Dockerfile optimization

"Discipline Gives Everything"

Head Office



#131-5J, 1st Floor, Bharath Building, Swamy
Nellaiappan High Road, SriPuram, Tirunelveli,
TamilNadu, India – 627 001.

Corporate Office

#4, 7th floor Karimpanal Statue Avenue, G.H
Road, Statue, Thampanoor, Trivandrum,
Kerala, India - 695 001.



www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

MODULE 6: Kubernetes (K8s Orchestration)

- K8s cluster architecture
- Pods, Services, Deployments
- Helm charts
- Auto-scaling & load balancing
- AI-based YAML generation & K8s troubleshooting

MODULE 7: Cloud Computing (AWS / Azure / GCP)

AWS (Default)

- EC2, S3, IAM, VPC
- Load Balancer, Auto Scaling
- CloudWatch, SNS, SQS
- EKS (Kubernetes on AWS)

Optional:

- Azure DevOps
- Google Cloud DevOps Engineer track

MODULE 8: Infrastructure as Code (IaC)

Terraform

“Discipline Gives Everything”

Head Office



#131-5J, 1st Floor, Bharath Building, Swamy
Nellaiappar High Road, SriPuram, Tirunelveli,
TamilNadu, India – 627 001.

Corporate Office

#4, 7th floor Karimpanal Statue Avenue, G.H
Road, Statue, Thampanoor, Trivandrum,
Kerala, India - 695 001.



www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

- Terraform basics
- Providers, variables, modules
- Deploying infrastructure using Terraform
- AI-assisted Terraform code writing

Ansible (Automation)

- Ansible playbooks
- Inventory & roles
- DevOps server automation

MODULE 9: Monitoring & Logging

- Prometheus
- Grafana dashboards
- CloudWatch metrics
- AI for log analysis

MODULE 10: Generative AI for DevOps

Build & Deploy faster using AI

- AI for CI/CD pipeline creation
- AI for writing Docker, K8s & Terraform files

"Discipline Gives Everything"

Head Office



#131-5J, 1st Floor, Bharath Building, Swamy
Nellaiappan High Road, SriPuram, Tirunelveli,
TamilNadu, India – 627 001.

Corporate Office

#4, 7th floor Karimpanal Statue Avenue, G.H
Road, Statue, Thampanoor, Trivandrum,
Kerala, India - 695 001.



www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

- AI for troubleshooting system issues
- AI for Cloud cost optimization
- AI DevOps Tools:
 - GitHub Copilot
 - AWS Bedrock
 - Google Vertex AI
 - OpenAI DevOps prompts

MODULE 11: Real-Time Projects

You will build 3 full DevOps pipelines:

- ✓ Project 1: CI/CD pipeline with Jenkins + Docker + AWS
 - ✓ Project 2: Kubernetes Deployment with Auto-Scaling
 - ✓ Project 3: Terraform + Ansible End-to-End Infrastructure Setup
- (You get GitHub source code for portfolio)

"Discipline Gives Everything"

Head Office



#131-5J, 1st Floor, Bharath Building, Swamy
Nellaiappar High Road, SriPuram, Tirunelveli,
TamilNadu, India – 627 001.

Corporate Office

#4, 7th floor Karimpanal Statue Avenue, G.H
Road, Statue, Thampanoor, Trivandrum,
Kerala, India - 695 001.



www.vikatworld.com Info@vikatworld.com Contact us: +91 909 5050 353

Who Can Join?

- IT / Non-IT Freshers
- System Admins
- Cloud Learners
- Developers & Testers
- Job Seekers wanting DevOps & AI roles
- Working Professionals upgrading skills

Career Roles After Training

- DevOps Engineer
- Cloud DevOps Engineer
- AI-Assisted DevOps Engineer
- Site Reliability Engineer (SRE)
- Cloud Engineer (AWS/Azure/GCP)
- Platform Engineer

Certification

All learners receive an **Industry Recognized Certification** upon course completion.

"Discipline Gives Everything"

Head Office



#131-5J, 1st Floor, Bharath Building, Swamy
Nellaiappar High Road, SriPuram, Tirunelveli,
TamilNadu, India – 627 001.

Corporate Office

#4, 7th floor Karimpanal Statue Avenue, G.H
Road, Statue, Thampanoor, Trivandrum,
Kerala, India - 695 001.