ACE IT CAREERS
BEST CAREER BUILDER

CLOUD & DEVOPS · COURSE SYLLABUS

DevOps Engineering

Learn the DevOps toolchain end to end: Git, CI/CD with Jenkins, infrastructure as code with Ansible and Terraform, Docker, Kubernetes and monitoring.

5–6 Weeks | Live online | Placement support

Syllabus

MODULE 1

DevOps fundamentals

- What is DevOps?
- The DevOps lifecycle: plan, code, build, test, release, deploy, operate, monitor
- Benefits of DevOps practices

MODULE 2

Source code management with Git and GitHub

- Introduction to Git
- Common commands: clone, commit, push, pull, branch, merge
- GitHub repositories and collaboration

MODULE 3

CI/CD with Jenkins

- What is CI/CD?
- Pipeline stages: build, test, deploy
- Jenkins installation and setup
- Creating a simple CI pipeline

MODULE 4

Configuration management and infrastructure as code

- Introduction to infrastructure as code
- Ansible inventory, playbooks and ad-hoc commands
- Terraform basics: syntax and deploying an EC2 instance

MODULE 5

Containers and orchestration

- Docker images, containers and volumes
- Docker Hub and Docker Compose
- Kubernetes basics: pods, services and deployments
- Minikube for local testing (optional)

MODULE 6

Monitoring and logging

- Prometheus and Grafana overview
- Log management with the ELK Stack

Hands-on projects

- Deploy a static website on Amazon S3
- Build a CI/CD pipeline with GitHub and Jenkins

Included with every course

- Live instructor-led classes in US time zones, with session recordings
- Real-time project work and a certificate
- Resume preparation and marketing, mock interviews and placement support