



DevOps Engineering Course

Part-Time



Introduction

Many companies are looking for talented DevOps engineers to remain competitive and up to speed in this agile industry. If you are looking to advance your career in this field join our 8-week DevOps Engineering course and learn to design and deploy infrastructure as code, build and monitor CI/CD pipelines for different deployment strategies, Google Cloud Technologies and scalable microservices using Kubernetes.

What is DevOps?

DevOps is a set of principles in technology that is governed by a culture of enhanced communication and collaboration between IT operation teams and developers. DevOps culture is guided by principles of DevOps such as automation, infrastructure as code, practices such as continuous integration, and continuous delivery, and implemented by a large set of DevOps tools. In this course, we will cover DevOps concepts in an easy-to-understand language.

Why Learn DevOps?

01

Huge demand for DevOps Experts

DevOps Engineers topped the list of LinkedIn's Emerging Jobs & highest salary tech jobs due to their specialized skillset.

02

Companies are now adopting DevOps practices and tools to increase productivity and better Return on Investment (ROI)

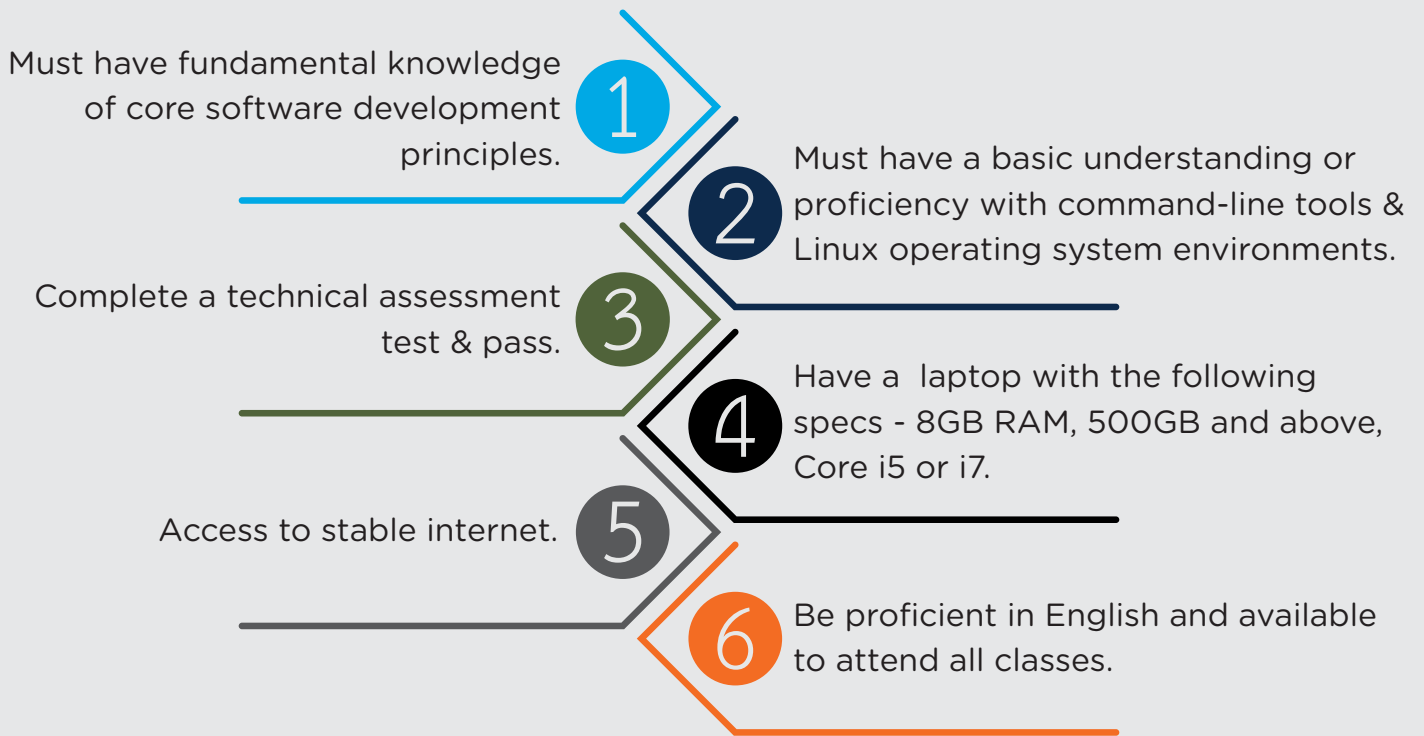
03

DevOps is getting increasingly popular, and more tech companies are hiring tech talent with DevOps skills.

Who is this course for?

Our DevOps Engineering Online Course is ideal for individuals that have a background in software development, IT, and deployment and want to advance their careers in DevOps roles.

Eligibility & Admissions Requirements



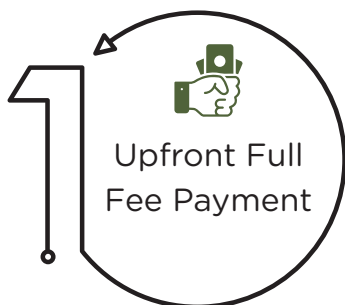
Course Overview

Duration: 8 Weeks

Delivery: Part-time | Live Online Classes | Mon - Fri from 6pm - 9pm
(live lectures & Technical Mentor Support)

Tuition Fees: Ksh 55,000

Fee Payment Options Available



Curriculum Outline

Week 1:

Introduction to DevOps

- Introduction to DevOps
- Introduction to Git, Tools & Installations
- Introduction to Continuous Integration/Continuous Development [CI/CD]
- Introduction to Pipelines Development [Jenkins]
- Projects

Week 2:

Containerization and Docker

- Pipelines Improvements & automation
- Introduction to virtualization and containerization
- Introduction to Docker & Containers
- Docker Image Structures, Image Build Layers, Docker Volumes
- Projects

Week 3:

Automation

- Docker networks
- Container orchestration
- Continuous Integration Using Docker
- Projects

Week 4:

Infrastructure As Code

- Introduction to Testing
- Introduction to Automation configuration
- Introduction to Infrastructure automation with Ansible
- Server User Configuration
- Projects

Week 5:

Automation Configuration & Instrumentation

- Ansible and Docker
- Introduction to GCP
- GCP Security and Fundamentals
- GCP Monitoring
- GCP core infrastructure
- GCP Network: Load Balancing & DNS
- Projects

Week 6:

Google Cloud

- Introduction to Cloud Storage
- Big Table
- Cloud SQL
- Cloud Spanner & Datastore [Cloud Firebase]
- Orchestration
- Micro-services
- Projects

Curriculum Outline

Week 7:

Orchestration

- Introduction to Kubernetes
- Kubernetes Structure
- Introduction to Cloud Orchestration
- Introduction to Services and Labels
- Introduction to Resource Management
- Controlled Replication and Resource Scheduling
- Projects

Week 8:

RPA Tooling

- Tools and Components of RPA
- Introduction to Bot Development
- RPA Implementation
- Robotic Process Automation
- Projects

What are the outcomes?

After completing the course you will be ready for roles such as:

- DevOps Test Engineer
- DevOps Cloud Engineer
- DevOps Architect
- Cloud Security Specialist
- DevOps Engineer
- IT Systems Architect
- Automation Architect
- Release Manager

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