



MORINGA

Discover · Grow · Transform



KENYA



DevOps

READY · SET · CODE

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.

Sign up for our 8 weeks course and learn to design and deploy infrastructure as code, build and monitor CI/CD pipelines for different deployment strategies, Google Cloud Technologies and how to deploy scaleable 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?

Many IT fields, such as business analysis and software development, do well with DevOps. This means that top companies are more likely to hire you if you have skills in DevOps engineering and put them on your resume. Also, companies are now adopting DevOps practices and tools to increase productivity and better Return on Investment (ROI).

DevOps is getting increasingly popular, and more tech companies are hiring tech talent who know about DevOps.

Who is this course for?

Our DevOps Engineering Online Course is ideal for anyone who wants to advance their career in Software Development. People working in the following roles will benefit the most from the DevOps Course:

- Junior Web Developers
- Junior Software Engineers
- IT Specialists
- Software Developers
- Systems Administrators and IT Managers
- Cloud Engineers
- Data Engineers

Why learn DevOps at Moringa?

Moringa is one of the most successful tech bootcamps in Africa. With a blended learning approach we have graduated top tech talent locally & globally.

- Practical hands-on learning
- Work on a portfolio of DevOps Engineering projects
- Live Lectures from a Senior DevOps Engineer with experience working in both local & global tech companies
- Dedicated Technical mentor support
- Recognized certificate upon completion of the course
- Access to a vast alumni network of Software Engineers, Data Scientists, Safaricom Digital Academy Alumni



Course Overview

This program comprises five phases. Phases 1 and 2 teach the fundamental methods, tools, and principles that guide the UX and UI processes. Phases 3 and 4 include studio experience through rigorous projects that allow you to employ your new techniques and skills. In the final phase, you will pull your body of work into a portfolio to prepare for entry into the job market.



Course Duration:

8 Weeks



Mode of learning:

Online



Schedule:

**Weekdays
6pm to 9pm**



Delivery:

Part-time

Fee:

Ksh 55,000

What You Need To Start:

1. Must have fundamental knowledge about core software development principles.
2. Must have basic understanding or proficiency with command-line tools and Linux operating system environments.
3. You are required to complete a technical assessment test and score 70% at the end of your application.
4. You are required to have a functional laptop with the following specs :
 - 8GB RAM, 500GB and above, Core i5 or i7.
5. All classes are fully online. You are required to have access to stable internet.
6. Be proficient in English and attend all classes.

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 Firestore]
- Orchestration
- Micro-services
- Projects

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

Expected learning outcomes:

At the end of the course participants will be expected to:

- Understand DevOps principles and its benefits
- Set up CI/CD pipelines and apply best practices and their applications
- Deploy cloud-based software applications
- Apply DevOps principles in a business context





What kind of jobs can you get with DevOps?

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



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