DevOps Fundamentals

Student-ready learning path and practical course outline

A practical, student-friendly outline covering course Overview, the Basics, development, infrastructure, and key Performance Indicators (KPIs).

MODULES
6

LESSONS
38

FORMAT
Self-paced

Module Breakdown

MODULE 1

Course Overview
Course Overview
Course Pre Reqs

MODULE 2

The Basics
The Basics
What is DevOps
DevOps Building Blocks
DevOps Best Practices
Why Containers
What is a Pipeline
Continuous Integration and Continous Delivery
Continuous Deployment
Pipelines - Whiteboard

MODULE 3

Development
Development Basics
CICD Strategy
Source Control Management
Demo - Build Management

MODULE 4

Infrastructure
Release and Deployments
Release Management
Demo - Release Management
Reliability Engineering
DevOps Tools
Infrastructure as Code
Automation
Demo - (IaaC) CloudFormation
Demo - Jenkins
Demo - GitHub

Module Breakdown (continued)

MODULE 5

Key Performance Indicators (KPIs)
Key Performance Indicators (KPI)
KPI Metrics
KPI Tools
Monitoring Applications
Demo - AWS CloudWatch

MODULE 6

Course Closeout
6.1 Module 6 Introduction
Course Closeout
6.2 Course Review
Summary Review
6.3 Blockchain Roles
Additional Resources
DevOps Job Outlook
Course Closeout