



DevOps Engineering Foundation (DevOps Institute)

Summary

Length: 16 hours Level: Experienced

This course explains the many aspects of DevOps engineering that leaders and practitioners can execute upon. While DevOps Foundation provides an overview of DevOps, this course will provide a closer look at the implementation process from an engineering perspective. It is an in depth view of the major aspects of engineering DevOps. An engineering approach is critical to DevOps journeys. This course provides the foundations of knowledge, principles and practices from a technical perspective needed to engineer a successful DevOps solution.

Learning Objectives

The learning objectives for DevOps Engineering Foundation include an understanding of:

- How to engineer DevOps solutions
- DevOps Technologies
- Applications Architectures
- Continuous Integration
- Continuous Testing
- Ephemeral Elastic Infrastructures
- Continuous Delivery and Deployment
- Metrics, Monitoring, Observability and Governance
- DevOps Humans
- Future Trends

Course Outline

1. COURSE OUTLINE

Module 1: DevOps Engineering Introduction

Module 2: DevOps Technology

Module 3: Applications Architectures and Continuous Integration

Module 4: Continuous Testing

Module 5: Ephemeral Elastic Infrastructures

Module 6: Continuous Delivery and Deployment

Module 7: Metrics, Monitoring, Observability, Governance

Module 8: DevOps Engineering Humans

Audience

The target audience for the DevOps Engineering Foundation course are individuals involved in engineering and technical practices such as: DevOps Practice owners and process designers. Developers, QA engineers and Managers who are interested in understanding how DevOps works. Employees and managers responsible for engineering or improving processes. Consultants guiding their clients through process improvement and DevOps initiatives. Anyone responsible for: Managing process-related requirements, Ensuring the efficiency and effectiveness of processes, Maximizing the value of processes.

Prerequisites

Some familiarity with DevOps processes and Agile is recommended.