TRAINING OFFERING

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DevOps Engineering Foundation

CODE:	LENGTH:	PRICE:
DOI_DOEF	16 Hours (2 days)	€1,490.00

Description

DevOps is a complex maze that has many leaders frustrated. Many enterprises struggle with their DevOps journey, or even knowing where to start. There are many layers of people, process and technologies across each organization that are instrumental to engineering a successful DevOps solution. DevOps is not something you go get a quote for and simply buy. It's an evolving journey.

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.
 This course positions learners to successfully complete the DevOps Engineering Foundation exam.

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

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

Programme

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   COURSE OUTLINE
DevOps Engineering Introduction

- DevOps Foundations

- Principles and Practices

- Related Frameworks

- Performance and Benefits

DevOps Technology

- Source and Artifacts Control

- CI/CD pipelines

- Tools and Toolchains

- Application Release Automation

- Value Stream Management
 Applications Architectures and Continuous Integration

- Application Architectures

- Containers

- Continuous integration
 Continuous Testing

- CT Tenets

- Test creation & TDD

- Test acceleration

- Test results

- Test management

- Test environment management
Ephemeral Elastic Infrastructures

- Virtual and Cloud

- Configuration management

- Infra-as-code

- Containers Orchestration

- GitOps
 Continuous Delivery and Deployment

- Continuous Delivery and Deployment

- Release Automation

- Deployment Strategies
 Metrics, Monitoring, Observability, Governance

- DevOps Metrics

- Monitoring

- Observability

- Governance
 DevOps Engineering Humans

- Culture

- Team Topologies

- Continuous Learning

- Future DevOps Trends

Test and Certification

Successfully passing (65%) the 60-minute exam, consisting of 40 multiple-choice questions, leads to the candidate's designation as DevOps Engineering Foundation certified. The certification is governed and maintained by DevOps Institute.

Further Information

LEARNER MATERIALS

- Sixteen (16) hours of instructor-led training and exercise facilitation

- Learner Manual (excellent post-class reference)

- Participation in unique exercises designed to apply concepts

- Sample exam and exam requirements guidelines

- Access to additional sources of information and communities

Session Dates

On request. Please Contact Us

Additional Information

This training is also available as onsite training. Please contact us to find out more.