DevOps Foundation – DOI

Description

DevOps Foundation® is a freestanding certification from DevOps Institute. The purpose of the certification and its associated course is to impart, test and validate knowledge of DevOps basic vocabulary, principles and practices. The vocabulary terms, concepts and practices are documented in the course learner materials. DevOps Foundation is intended to provide individuals with an understanding of basic DevOps concepts and how DevOps may be used to improve communication, collaboration and integration between software developers and IT operations professionals.

Classroom Registration Price (CHF)
3100
Virtual Classroom Registration Price (CHF)
2950
Course Content
Module 1: Exploring DevOps

- Lesson 1: Defining DevOps
- Lesson 2: Why Does DevOps Matter?

Module 2: Core DevOps Principles

- Lesson 1: The Three Ways
- Lesson 2: The First Way
- Lesson 3: The Theory of Constraints
- Lesson 4: The Second Way
- Lesson 5: The Third Way
- Lesson 6: Chaos Engineering
- Lesson 7: Learning Organizations

Module 3: Key DevOps Practices

- Lesson 1: Continuous Delivery
- Lesson 2: Site Reliability & Resilience Engineering
- Lesson 3: DevSecOps
- Lesson 4:ChatOps
- Lesson 5: Kanban

Module 4: Business and Technology Frameworks

- Lesson 1: Agile
- Lesson 2: ITSM
- Lesson 3: Lean
- Lesson 4: Safety Culture
- Lesson 5: Learning Organizations
- Lesson 6: Sociocracy/Holacracy
- Lesson 7: Continuous Funding

Module 5: Culture, Behaviors & Operating Models

- Lesson 1: Defining Culture
- Lesson 2: Behavioral Models
- Lesson 3: Organizational maturity models
- Lesson 4: Target Operating Models

Module 6: Automation & Architecting DevOps Toolchains

- Lesson 1: CI/CD
- Lesson 2: Cloud
- Lesson 3: Containers
- Lesson 4: Kubernetes
- Lesson 5: DevOps Toolchain

Module 7: Measurement, Metrics, and Reporting

- Lesson 1: The Importance of Metrics
- Lesson 2: Technical Metrics
- Lesson 3: Business Metrics
- Lesson 4: Measuring & Reporting Metrics

Module 8: Sharing, Shadowing and Evolving

- Lesson 1: Collaborative Platforms
- Lesson 2: Immersive, Experiential Learning
- Lesson 3: DevOps Leadership
- Lesson 4: Evolving Change

Documentation

- Official digital courseware included

Exam

- Exam "DevOps Foundation - DOI" included

Participant profiles

- Individuals involved in IT development, IT operations or IT service management
- Individuals who require an understanding of DevOps principles
- IT professionals working within, or about to enter, an Agile Service Design Environment

Prerequisites

- Be familiar with IT terminology
- Have an IT related work experience

Objectives

- DevOps objectives and vocabulary
- Understand principles and practices including Continuous Integration, Continuous Delivery, testing, security and the Three Ways
- Understand DevOps relationship to Agile, Lean and ITSM
- Improve workflows, communication and feedback loops

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Duration (in Days)
3
Reference
DEVOPSDOI-01