

## Szkolenie: DevOps Institute DevOps Engineering Foundation (DOEF)<sup>SM</sup>



### Cel szkolenia:

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.

### COURSE 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

## Plan szkolenia:

- Module 1: DevOps Engineering Introduction
  - DevOps Foundations
  - Principles and Practices
  - Related Frameworks
  - Performance and Benefits
- Module 2: DevOps Technology
  - Source and Artifacts Control
  - CI/CD pipelines
  - Tools and Toolchains
  - Application Release Automation
  - Value Stream Management
- Module 3: Applications Architectures and Continuous Integration
  - Application Architectures
  - Containers
  - Continuous integration
- Module 4: Continuous Testing
  - CT Tenets
  - Test creation & TDD
  - Test acceleration
  - Test results
  - Test management
  - Test environment management
- Module 5: Ephemeral Elastic Infrastructures

- Virtual and Cloud
- Configuration management
- Infra-as-code
- Containers Orchestration
- GitOps
- Module 6: Continuous Delivery and Deployment
  - Continuous Delivery and Deployment
  - Release Automation
  - Deployment Strategies
- Module 7: Metrics, Monitoring, Observability, Governance
  - DevOps Metrics
  - Monitoring
  - Observability
  - Governance
- Module 8: DevOps Engineering Humans
  - Culture
  - Team Topologies
  - Continuous Learning
  - Future DevOps Trends

## Wymagania:

Some familiarity with DevOps processes and Agile is recommended.

## Poziom trudności



## Certyfikaty:

Each participant receives a confirmation of completion an accredited training.

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.

## Prowadzący:

Authorized PeopleCert Trainer

## Informacje dodatkowe:

### 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