DevOps Engineering Foundation («DEVEN»)

An engineering approach is essential to the success of any DevOps journey. In this course, learn what DevOps Engineering is and how to implement it to successfully build a DevOps environment.

Duration: 2 days
Price: 2'500.–
Course documents: Official courseware (digital) in English

Content

1. DevOps Engineering Introduction
   - DevOps Foundations
   - Principles and Practices
   - Related Frameworks
   - Performance and Benefits
2. DevOps Technology
   - Source and Artifacts Control
   - CI/CD pipelines
   - Tools and Toolchains
   - Application Release Automation
   - Value Stream Management
3. Applications Architectures & Continuous Integration
   - Application Architectures
   - Containers
   - Continuous integration
4. Continuous Testing
   - CT Tenets
   - Test creation & TDD (Test Driven Development)
   - Test acceleration
   - Test results
   - Test management
   - Test environment management
5. Ephemeral Elastic Infrastructures
   - Virtual and Cloud
   - Configuration management
   - Infra-as-code
   - Containers Orchestration
   - GitOps
6. Continuous Delivery & Deployment
   - Continuous Delivery and Deployment
   - Release Automation
   - Deployment Strategies
7. Metrics, Monitoring, Observability, Governance
   - DevOps Metrics
   - Monitoring
   - Observability
   - Governance
8. DevOps Pipelines und Continuous Compliance
   - Culture
   - Team Topologies
   - Continuous Learning
   - Future DevOps Trends

Key Learnings

Understand DevOps concepts such as Continuous Integration, Testing, Delivery, Deployment.
Knowing the necessary technological and process framework for successful DevOps engineering
Implementing DevOps engineering in your own company

Methodology & didactics

An interactive training consisting of presentation and group exercises.

Participants are supported by well-founded and certified training material, which also provides valuable support for everyday project work after the seminar.

Target audience

This course is aimed at DevOps Practice Owners, Process Designers, Software Developers and DevOps Engineers

Requirements

There are no formal prerequisites for this course. First practical experience with DevOps or knowledge equivalent to the following course is an advantage:

- DevOps Foundation («DEVFOK»)
- DevSecOps Foundation («DEVSEC»)
- Site Reliability Engineering (SRE) Foundation («DEVSRE»)
- Value Stream Management Foundation («VALUE»)
- Observability Foundation («DEVOBS»)
- AIOps Foundation («DEVAI»)

Certification

You will receive a voucher for an online exam via email from PeopleCert a few days before the course starts. The exam voucher must be redeemed directly on PeopleCert, where you can register for an available exam date. The online exam is proctored by a PeopleCert proctor, which requires a device with a microphone and camera. We recommend taking the exam on a personal PC/notebook, as corporate notebooks are often subject to restrictions.

For more information about the exam, please visit the PeopleCert website here.

Exam format: Web-based, multiple-choice exam, number of questions: 40, passing score: 65%, duration: 60 minutes, open book

«Take2» option:

This option allows you to retake the exam at a lower price if you do not pass. The retake exam takes place **online**. If required, you can book this option independently in your PeopleCert candidate profile before booking the exam. You have up to 6 months from the date of the first exam to prepare and take the retake exam.

Under this link you will find more information about the complaint management of our certification partner and your rights.

Any questions?

We are happy to advise you on +41 44 447 21 21 or info@digicomp.ch. You can find detailed information about dates on www.digicomp.ch/courses-digital-transformation-technologies/agile/course-devops-engineering-foundation

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