



TRAINING PROGRAMME



DevOps[®] Foundation

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Description



2 days



accredited training



language of training: polish



language of materials: english

Organisations are facing new players in their markets and must therefore remain competitive and regularly release new and updated digital products, rather than doing so once or twice a year.

The **DevOps Foundation** training provides a basic understanding of key DevOps terminology so that everyone is speaking the same language and highlights the benefits of using DevOps to support organisational success.

The course covers the **latest thinking, principles and practices of the DevOps community**, including case studies of high-performing organisations such as ING Bank, Ticketmaster, Capital One, Alaska Air, Target, Fannie Mae, Societe Generale and Disney. These cases engage and inspire learners through multimedia and interactive exercises that bring the learning experience to life. The training also discusses the Three Paths highlighted by Gene Kim in his book 'The Phoenix Project' and the latest information from the State of DevOps and DevOps Institute Upskilling reports.

Participants will gain an understanding of DevOps, a cultural and professional movement that emphasises communication, collaboration, integration and automation to improve workflow between developers and IT operations professionals.

Purpose of the training

Upon completion of the course, participants will be able to understand:

- ✓ the objectives and vocabulary associated with DevOps,
- ✓ the business benefits and IT principles and practices, such as continuous integration, continuous delivery, testing, security, and The Three Ways,
- ✓ the relationship between DevOps and Agile, Lean, and ITSM,
- ✓ improved processes, communication and feedback loops at work,
- ✓ automation practices, including deployment pipelines and DevOps tool chains,
- ✓ scaling DevOps in an enterprise,
- ✓ key success factors and performance indicators,

- ✓ examples and results of DevOps application in everyday life.

Target group

- ✓ people from the business department who want to understand microservices and containers,
- ✓ technical people who want to understand the business value of DevOps in reducing costs (overall IT cost reduction of 15-25%), with increased quality (50-70% reduction in change failure rates) and flexibility (up to 90% reduction in deployment and release times) to support business goals within digital transformation initiatives,
- ✓ Everyone involved in IT development, IT operations and IT service management,
- ✓ People who want to understand the principles of the DevOps model,
- ✓ IT professionals working in agile environments or intending to enter this environment,
- ✓ Customers and people in business roles within the organisation.

Benefits

Benefits for the organisation:

- ✓ building a culture of communication, learning safety and continuous improvement,
- ✓ shortening development cycles and faster implementation of modern solutions,
- ✓ reducing the number of errors during implementation and rollback of changes, while reducing the time needed to restore data,
- ✓ improving communication and cooperation within the organisation,
- ✓ increasing efficiency,
- ✓ reducing IT costs.

Benefits for employees:

- ✓ using common concepts and terminology related to DevOps,
- ✓ understanding the benefits for business and IT,
- ✓ CI/CD delivery pipeline – continuous integration, delivery, testing, security,
- ✓ combining DevOps with Agile, Lean and ITSM,
- ✓ improved workflow, communication and feedback loops,
- ✓ guidance on automating implementation processes and DevOps tools,
- ✓ scaling DevOps in the enterprise,
- ✓ confirmation of basic DevOps knowledge.

Exam and certification

- ✓ non-mandatory exam,
- ✓ multiple-choice, single-response questions test,
- ✓ number of questions: 40,
- ✓ pass threshold: 65% (26 out of 40 possible points),
- ✓ language of the exam: English, Polish, among others - selected on the Accreditor's website during exam registration,
- ✓ current list of available exam languages can be found on the Accreditor's website: <https://www.peoplecert.org/browse-certifications/devops/DevOps-13/devops-foundation-2457>
- ✓ duration: 60 minutes (75 minutes for non-native speakers),
- ✓ mode: online (after online training) or in-person (after in-person training),
- ✓ date: post training, selected by participants at the Accreditor's availability,
- ✓ open book - candidates are allowed to use official training materials,
- ✓ validity of the certificate: 3 years,
- ✓ the participant who scores the necessary number of points in the exam is awarded the international certificate in electronic form.

In addition, you can purchase exam retake **Take2 Re-sit Exam Option**. In case of a negative result, this option allows you to retake the exam in an online format within 6 months of the original date, without paying the full cost of the exam.

The Take2 Re-sit Exam Option can only be purchased when placing an order for the first exam date.

Training programme

Module 1: Discovering DevOps

- ✓ Defining DevOps
- ✓ Why is DevOps important?
- ✓ The business perspective
- ✓ The IT perspective

Module 2: Core principles of DevOps

- ✓ The three paths
- ✓ The theory of constraints
- ✓ Chaos engineering
- ✓ Learning organisations

Module 3: Key DevOps practices

- ✓ Continuous Testing

- ✓ Continuous Integration, Delivery, Deployment
- ✓ Site Reliability & Resilience Engineering
- ✓ DevSecOps
- ✓ ChatOps
- ✓ Kanban

Module 4: Business and Technology Tools

- ✓ Agile
- ✓ ITSM
- ✓ Lean
- ✓ Security Culture
- ✓ Learning Organisations
- ✓ Permanent funding

Module 5: Culture, behavioural patterns and operating models

- ✓ Defining culture
- ✓ Cultural debt
- ✓ Behavioural models
- ✓ Organisational models

Module 6: Automation and DevOps toolkit design

- ✓ CI/CD delivery pipeline
- ✓ Infrastructure as code
- ✓ Cloud solutions
- ✓ Containers & Microservices
- ✓ Machine Learning
- ✓ DevOps Toolchains

Module 7: Measurement, Metrics and Reporting

- ✓ The Importance of Measurement
- ✓ DevOps Metrics
- ✓ Speed/Throughput/Tempo
- ✓ Quality
- ✓ Stability
- ✓ Culture
- ✓ Deployment/Change Times
- ✓ Outcome/value-based metrics

Module 8: Sharing, observation and evolution

- ✓ DevOps Days
- ✓ DevOps in the enterprise
- ✓ Roles
- ✓ Leadership in DevOps
- ✓ Organisational aspects

- ✓ Challenges, risks and key success factors

Training Methods and Tools

The training is delivered using a mix of **lectures** and **workshops**.

LECTURE COMPONENT	WORKSHOP COMPONENT
It is conducted on the basis of a multimedia presentation prepared by the instructor and enriched by moderated discussions, exchange of experiences among participants and case studies.	✓ Small group exercises ✓ Individual tasks ✓ Case studies ✓ Moderated discussions ✓ Peer experience exchange

The structure and delivery of the course, supported by the trainer's professional and instructional experience, **ensure a comprehensive understanding of the subject and development of practical skills.**