Training: DevOps Institute
DevOps Foundation

PeopleCert

TRAINING GOALS:

As organizations are facing new entrants in their respective markets, they need to stay competitive and release new and updated products on a regular basis rather than one or two times a year.

The DevOps Foundation course provides a baseline understanding of key DevOps terminology to ensure everyone is talking the same language and highlights the benefits of DevOps to support organizational success.

The course includes the latest thinking, principles and practices from the DevOps community including real-world case studies from high performing organizations including ING Bank, Ticketmaster, Capital One, Alaska Air, Target, Fannie Mae, Societe Generale, and Disney that engage and inspire learners, leveraging multimedia and interactive exercises that bring the learning experience to life, including the Three Ways as highlighted in the Phoenix Project by Gene Kim and the latest from the State of DevOps and DevOps Institute Upskilling reports.

Learners will gain an understanding of DevOps, the cultural and professional movement that stresses communication, collaboration, integration, and automation to improve the flow of work between software developers and IT operations professionals.

The course is designed for a broad audience, enabling those on the business side to obtain an understanding of microservices and containers. Those on the technical side will obtain an understanding as to the business value of DevOps to reduce cost (15-25% overall IT cost reduction) with increased quality (50-70% reduction in change failure rate) and agility (up to 90% reduction in provision and deployment time) to support business objectives in support of digital transformation initiatives.

Unique and exciting exercises will be used to apply the concepts covered in the course and sample documents, templates, tools, and techniques will be provided to use after the class.

This course positions learners to successfully complete the DevOps Foundation examination.

COURSE OBJECTIVES

The learning objectives for DevOps Foundation include an understanding of:

- DevOps objectives and vocabulary
- Benefits to the business and IT
- Principles and practices including Continuous Integration, Continuous Delivery, testing, security

Compendium Centrum Edukacyjne Spółka z o.o.
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and the Three Ways
- DevOps relationship to Agile, Lean and ITSM
- Improved workflows, communication and feedback loops
- Automation practices including deployment pipelines and DevOps toolchains
- Scaling DevOps for the enterprise
- Critical success factors and key performance indicators
- Real-life examples and results

AUDIENCE

The target audience for the DevOps Foundation course includes Management, Operations, Developers, QA and Testing professionals such as:

- 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
- The following IT roles: Automation Architects, Application Developers, Business Analysts, Business Managers, Business Stakeholders, Change Agents, Consultants, DevOps Consultants, DevOps Engineers, Infrastructure Architects, Integration Specialists, IT Directors, IT Managers, IT Operations, IT Team Leaders, Lean Coaches, Network Administrators, Operations Managers, Project Managers, Release Engineers, Software Developers, Software Testers/QA, System Administrators, Systems Engineers, System Integrators, Tool Providers

CONSPECT:

- Module 1: Exploring DevOps - Defining DevOps
  - Why Does DevOps Matter?
- Module 2: Core DevOps Principles - The Three Ways
  - The First Way
  - The Theory of Constraints
  - The Second Way
  - The Third Way
  - Chaos Engineering
  - Learning Organizations
- Module 3: Key DevOps Practices - Continuous Testing, Integration, Delivery, Deployment
  - Site Reliability & Resilience Engineering
  - DevSecOps
  - ChatOps

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- Kanban
- Module 4: Business and Technology Frameworks - Agile
  - ITSM
  - Lean
  - Safety Culture
  - Learning Organizations
  - Continuous Funding
- Module 5: Culture, Behaviors & Operating Models
  - Defining Culture
  - Cultural Debt
  - Behavioral Models
  - Organizational maturity models
- Module 6: Automation & Architecting DevOps Toolchains - CI/CD
  - Cloud, Containers, and Microservices
  - AI and Machine Learning
  - Automation
  - DevOps Toolchains
- Module 7: Measurement, Metrics, and Reporting - The Importance of Measurement
  - DevOps Metrics - Speed, Quality, Stability, Culture
  - Change lead/cycle time
  - Value Driven Metrics
- Module 8: Sharing, Shadowing and Evolving - DevOps in the Enterprise
  - Roles
  - DevOps Leadership
  - Organizational Considerations
  - Getting Started
  - Challenges, Risks, and Critical Success Factors

REQUIREMENTS:

Familiarity with IT terminology and IT related work experience are recommended.

Difficulty level



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CERTIFICATE:

Each participant receives a confirmation of completion an accredited training.

Successfully passing (65%) the 60-minute examination, consisting of 40 multiple-choice questions, leads to the DevOps Foundation Certificate. The certification is governed and maintained by the DevOps Institute.

TRAINER:

Authorized PeopleCert Trainer

ADDITIONAL 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 documents, templates, tools and techniques
- Access to additional value-added resources and communities

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