

DevOps Foundation® Certification Course

Course Description: The DevOps Institute - DevOps Foundation certification from PeopleCert covers the latest thinking, principles, and practices from the DevOps community. It features real-world case studies from high-performing organizations, such as 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.

Course Objectives: Attendees acquire an understanding of:

- ✓ DevOps objectives and vocabulary
- ✓ Benefits to the Business and IT
- ✓ Principles and practices including Continuous Integration, Continuous Delivery, testing, security, 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 primary audience includes the following business professionals: Application Developers, Business Analysts, Business Managers, Change Agents, Consultants, DevOps Consultants, DevOps Engineers, Infrastructure Architects, Integration Specialists, IT Managers, IT Operations, Lean Coaches, Network Administrators, Operations Managers, Project Managers, Release Engineers, Software Testers/QA, System Administrators, and Systems Engineers. (Min: 5, Max: 20)

Course Length: 16 hours

Prerequisites: Familiarity with IT software development and operations responsibilities

Course Materials:

- ✓ Instructor-led presentation, group exercises, and case studies
- ✓ Learner Workbook (287-pg, 375 slides) with study aids, quizzes, and assignments
- ✓ Sample exams and exam preparation (excellent post-class reference)
- ✓ Official course curriculum provided by PeopleCert (16 PDUs earned)
- ✓ PeopleCert Exam Voucher included (with Certificate and Digital Badge)

Certification Exam: Learners who choose to certify in this DevOps discipline will be equipped to earn the **DevOps Foundation® Certification** by achieving a passing score (65%) on the 60-minute exam, consisting of 40 multiple choice questions. Participants are provided with an **exam voucher** so they can schedule the exam at their convenience after the course.

Course Outline: DevOps Foundation v3.6

Module 1: Exploring DevOps

- Defining DevOps
- Why Does DevOps Matter
- The Business Perspective
- The IT Perspective

Module 2: Core DevOps Principles

- The Three Ways
- The Theory of Constraints
- Chaos Engineering

Module 3: Key DevOps Practices

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

Module 4: Business and Technology Frameworks

- Agile, ITSM
- Lean
- Safety Culture
- Learning Organizations

Module 5: Culture, Behaviors and Operating Models

- Defining Culture
- Behavior Models
- Organizational Models & Change

Module 6: Automation & Architecting DevOps Toolchains

- CI/CD and Automation
- Cloud, Containers & Microservices
- DevOps Toolchains

Module 7: Measurement, Metrics & Reporting

- The Importance of Measurement
- DevOps Metrics
- Change Lead/Cycle Times

Module 8: Sharing, Shadowing & Evolving

- DevOps in the Enterprise
- DevOps Leadership
- Organizational Considerations
- Getting Started
- Challenges, Risks & Critical Success Factors

