Szkolenie: DevOps Institute
Continuous Testing Foundation (CTF)

PeopleCert

Cel szkolenia:

This comprehensive course addresses testing in a DevOps environment and covers concepts such as the active use of test automation, testing earlier in the development cycle, and instilling testing skills in developers, quality assurance, security, and operational teams.

The course is relevant for every modern IT professional involved in defining or deploying a DevOps testing strategy for their organization, as test engineering is the backbone of DevOps and the primary key for successful DevOps pipeline to support digital transformation.

Actionable 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 leverage after the class.

This certification positions learners to successfully complete the Continuous Testing Foundation exam.

COURSE OBJECTIVES

The learning objectives for CTF include a practical understanding of:

- The purpose, benefits, concepts, and vocabulary of DevOps testing
- How DevOps testing differs from other types of testing
- DevOps testing strategies, test management, and results analysis
- Strategies for selecting test tools and implementing test automation
- Integration of DevOps testing into Continuous Integration and Continuous Delivery workflows
- How DevOps testers fit with a DevOps culture, organization, and roles

AUDIENCE

The target audience for the Continuous Testing Foundation course is anyone involved in defining a DevOps Testing strategy, such as:

- Delivery Staff
- DevOps Engineers
- IT Managers

Compendium Centrum Edukacyjne Spółka z o.o.
ul. Tatarska 5, 30-103 Kraków, tel.: (12) 298 47 77
ul. Postępu 18B, 02-676 Warszawa, tel.: (22) 417 41 70
BNP Paribas Bank Polska S.A.
Oddział w Warszawie
Nr konta: PL 20 1600 1462 1853 6451 3000 0001

- Project Managers
- Lab Staff
- Maintenance and Support Staff
- Quality Assurance Managers
- Quality Assurance Teams
- Release Managers
- Testers
- Software Engineers

Plan szkolenia:

- Course Objectives and Modules, Logistics
- What is DevOps Testing and its Business Benefits?
- Relation of DevOps testing to other test methodologies
- DevOps testing best practices - DevOps Testing Terminology
  - Culture changes
  - Organization changes
  - Process and team friction
  - Motivation strategies
  - Measuring Success
  - Continuous Evolution
  - Troubleshooting
- What is the DevOps pipeline? - DevOps Testing on the pipeline
  - Test strategy choices
  - Pre-Flight strategies
  - Continuous Integration Testing
  - System, Delivery and Customer Testing
  - Test Environments
  - Lab Management
  - Topology orchestration
- Test Automation Frameworks - Test Tools
  - Selection criterion
  - Automated metrics
  - Key concepts
- Test Case Best Practices & Design Exercise
- Test Suite Best Practices & Design Exercise

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- Principles of DevOps Management
- DevOps Test Management Metrics
- DevOps Management Tools
- DevOps Test Results Analysis
- Integrating DevOps Results Analysis
- Test Management Exercise
- Fictitious Product Test Requirements
- Individual Exercise
- Class discussion
- Exam Preparation

Wymagania:

An understanding and knowledge of common DevOps terminology and concepts and related work experience are recommended.

Poziom trudności



Certyfikaty:

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 candidate’s designation as Continuous Testing Foundation (CTF) certified. The certification is governed and maintained by the DevOps Institute.

Prowadzący:

Authorized PeopleCert Trainer

Informacje dodatkowe:

LEARNER MATERIALS

- Sixteen (16) hours of instructor-led training and exercise facilitation
- Digital Learner Manual (excellent post-class reference)
- Participation in exercises designed to apply concepts

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- Sample documents, templates, tools and techniques
- Access to additional sources of information and communities

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