

Continuous Testing Foundation (CTF)

Learn via: **Classroom**

Duration: **2 Day**

<https://bilginc.com/en/training/continuous-testing-foundation-ctf-811-training/>

Overview

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.

Prerequisites

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

What You Will Learn

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

Outline

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

Certification Exam

Successfully passing (65%) the 90-minute examination, consisting of 40 multiple-choice questions, leads to the candidate's designation as a certified DevOps Test Engineer (DTE). The certification is governed and maintained by the DevOps Institute.

The course fee includes the open book, online exam. Delegates will receive a voucher for this exam which they can sit, at their convenience, post course.

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

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