Continuous Testing Foundation
(CTF)®

TRAINING DATASHEET

Learn how to optimize testing, to test faster and still obtain good quality
and a consistent stable result.

COURSE SYPNOSIS

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.

DevOps Institute — PREMIER PARTNER 2020

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COURSE DURATION

2 Days Instructor-Led Classroom Training

COURSE OBJECTIVES

On completion of this course, the following learning outcomes will be achieved:

- 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

WHO SHOULD ATTEND

The target audience for this course are professionals involved in defining DevOps test strategies, such as:

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

OUTLINE

- 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
- Test Suite Best Practices & Design
- DevOps Test Management Metrics
- DevOps Management Tools
- DevOps Test Results Analysis
- Integrating DevOps Results Analysis
- Test Management Exercise
- Fictitious Product Test Requirements

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CERTIFICATION

Participants who successfully complete the course and pass the examination will be recognized as Continuous Testing Foundation (CTF) certified which is issued and governed by DevOps Institute. Delegates who do not attain a passing score for the examination would be awarded a course attendance certificate only.

PRE-REQUISITES

There are no prerequisites to attending the Continuous Testing Foundation course or sitting the certification examination. Familiarity with DevOps definitions and principles are essential.

PRE-COURSE READING

There are no pre-course reading resources or assignments prior to attending the course.

EXAMINATION FORMAT

- ⚠ 40 Multiple Choice
- ⚠ 1 mark per correct answer
- ⚠ 26 marks required to pass (out of 40 available) — 65%
- ⚠ Sixty minutes duration
- ⚠ Web-based Open-book exams

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