Continuous Testing Foundation (CTF) Training

Duration: **2 Day**

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Continuous testing has become an essential practice for organisations adopting DevOps and modern software delivery. Rather than treating testing as a final phase, Continuous Testing integrates quality assurance throughout the entire development lifecycle, enabling faster releases with greater confidence.

The **Continuous Testing Foundation (CTF)** programme provides a comprehensive understanding of testing within a DevOps environment. Participants explore test automation, testing strategies, continuous integration, continuous delivery, quality metrics, and effective test management while learning how to embed testing into modern delivery pipelines.

Through practical examples and real-world scenarios, learners develop the knowledge required to build scalable testing strategies that support continuous delivery and digital transformation initiatives.

This programme also prepares participants for the internationally recognised**Continuous Testing Foundation (CTF)** certification examination.

Prerequisites

A general understanding of DevOps principles, software development practices, and basic testing concepts is recommended before attending the course.

Who Should Attend

This programme is designed for:

- DevOps Engineers
- Software Test Engineers
- QA Professionals
- Test Automation Engineers
- Software Developers
- CI/CD Engineers
- Release Managers
- Technical Leads
- Quality Managers
- IT professionals responsible for DevOps testing strategies

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What You Will Learn

Upon completion of this programme, participants will be able to:

- Explain the purpose and value of Continuous Testing within DevOps.
- Distinguish Continuous Testing from traditional testing approaches.
- Design testing strategies suitable for DevOps environments.
- Evaluate and select appropriate automation tools.
- Integrate automated testing into Continuous Integration and Continuous Delivery pipelines.
- Apply effective DevOps test management practices.
- Analyse testing metrics and quality indicators.
- Support continuous delivery through structured quality assurance processes.
- Understand testing roles within DevOps teams.
- Prepare confidently for the Continuous Testing Foundation certification exam.

Training Outline

Module 1 – Continuous Testing in DevOps

- DevOps testing fundamentals
- Testing terminology
- Cultural transformation
- Organisational change
- Team collaboration
- Continuous improvement
- Success measurement
- Troubleshooting techniques

Module 2 – Testing Across the DevOps Pipeline

- DevOps pipeline overview
- Testing strategies
- Pre-flight validation
- Continuous Integration testing
- System testing
- Delivery testing
- Customer acceptance testing
- Test environments
- Lab management
- Environment orchestration

Module 3 – Test Automation

- Automation frameworks
- Test automation tools
- Tool selection criteria
- Automated metrics
- Core automation concepts

Module 4 – Test Case Design

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- Test case best practices
- Designing effective test cases
- Practical workshop

Module 5 – Test Suite Management

- Test suite organisation
- Best practices
- Hands-on exercise

Module 6 – DevOps Test Management

- DevOps management principles
- Test governance
- Quality metrics
- Management tools

Module 7 – Test Results Analysis

- Interpreting testing results
- Reporting and metrics
- Continuous improvement
- Integrating quality insights into delivery pipelines

Module 8 – Practical Workshops

- Test management exercise
- Product testing requirements
- Individual activities
- Group discussions

Module 9 – Certification Preparation

- Exam structure
- Practice questions
- Assessment techniques
- Exam preparation guidance

Certification

Participants completing the programme are prepared to sit the **90-minute Continuous Testing Foundation certification examination**, consisting of **40 multiple-choice questions**.

A minimum passing score of **65%** is required to achieve certification.

The credential is administered and maintained by the **DevOps Institute**.

Course fees include an **open-book online examination voucher**, allowing participants to schedule the exam at a convenient time after completing the training.

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