

02
DAYS
COURSE

PREREQUISITE

Familiarity with IT terminology & IT related work experience are recommended.

PROGRAM DESCRIPTION



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 DevOps Test Engineering exam.

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DELIVERED BY:



CERTIFIED BY:



DevOps TEST ENGINEER



COURSE OUTLINE

TARGET AUDIENCE

OBJECTIVE

The learning objectives for DTE 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.

01 What is DevOps Testing and its Business Benefits?

02 Relation of DevOps testing to other test methodologies

03 DevOps testing best practices

- DevOps Testing Terminology
- Culture changes
- Organization changes
- Process and team friction
- Motivation strategies
- Measuring Success
- Continuous Evolution
- Troubleshooting

04 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

05 Test Automation Frameworks

- Test Tools
- Selection Criterion
- Automated metrics
- Key concepts

06 Test Case Best Practices & Design Exercise

07 Test Suite Best Practices & Design Exercise

08 Principles of DevOps Management

09 DevOps Test Management Metrics

10 DevOps Management Tools

11 DevOps Test Results Analysis

12 Integrating DevOps Results Analysis

13 Test Management Exercise

14 Fictitious Product Test Requirement

- 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 .

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
- 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 Engineering (DTE). The certification is governed and maintained by the DevOps Institute.