DevOps Test Engineering (DTE)®

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.

Prerequisites

- DevOps Foundation

Prerequisite Comments

The DevOps Foundation certification is a prerequisite for DevOps Test Engineering to ensure participants are aligned with the baseline DevOps definitions and principles.

Target Audience

The target audience for the DevOps Test Engineering course is anyone involved in defining a DevOps Testing strategy, 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

Course Objectives

The learning objectives for DTE include a practical understanding of:
The purpose, benefits, concepts and vocabulary of DevOps testing

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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

Course Outline

Course Objectives and Modules, Logistics

What is DevOps Testing and its Business Benefits?

Relation of DevOps Testing in 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

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

Related Courses, Certifications, Exams

- Certified DevOps Test Engineer (DTE)