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ISTQB® Quality in DevOps Certification Training

2 days (14 hours)

Overview

The ISTQB Quality in DevOps Certification Training prepares you for the official ISTQB Certified Tester Quality in DevOps (CT-QDO) certification and the essential software quality practices in DevOps environments.

This training helps you solidify the knowledge required to pass the CT-QDO exam while developing an operational understanding of quality throughout the delivery cycle. You'll learn how to position quality assurance, testing, and collaboration within a CI/CD-driven organization.

You will study the fundamentals of DevOps, the organization of value streams, feedback loops, and the principles of Quality Engineering. The program also covers automation, manual testing, delivery metrics, and the tools used to ensure reliable deployments.

Guided exercises and real-world scenarios will help you connect the syllabus objectives to the decisions you face in projects. You'll learn to identify quality activities to integrate into a pipeline, choose appropriate testing approaches, and interpret metrics useful for continuous improvement.

Upon completion of the training, you will have a structured method for preparing for the official ISTQB Certified Tester Quality in DevOps (CT-QDO) exam. You will be able to contribute to a culture where quality is shared by the development, testing, and operations teams.

Like all our training courses, this one will introduce you to **the latest stable version** of the technology and its new features.

Objectives

- Explain the principles of DevOps and their contribution to software quality
- Position quality assurance activities within the value chain
- Define a testing strategy tailored to a CI/CD environment
- Identify the benefits of automation and manual testing in DevOps loops
- Select metrics and tools to drive quality and delivery
- Effectively prepare for the ISTQB Certified Tester Quality in DevOps (CT-QDO) exam

Target Audience

- Software tester
- QA Engineer
- DevOps Engineer
- Test Automation Engineer
- Software Quality Manager

Prerequisites

- ISTQB CTFL certification
- Knowledge of software testing practices
- Understanding of DevOps and CI/CD principles
- Basic experience in a development or testing project

Technical Requirements

- Computer running Windows 10 or 11, macOS, or Linux
- A recent version of Google Chrome, Mozilla Firefox, or Microsoft Edge
- Access to a stable internet connection without filtering that blocks training tools
- PDF reader to view the syllabus and exercises

ISTQB® Quality in DevOps Training Program

[Day 1 - Morning]

DevOps Fundamentals and Shared Quality

- Identify the objectives of the ISTQB® Certified Tester Quality in DevOps (CT-QDO) certification and the structure of the syllabus
- Understand the values of DevOps: collaboration, autonomy, rapid feedback, and collective responsibility
- Connect Agile and DevOps principles to software quality challenges
- Analyze the role of Quality Assurance and testing in a multidisciplinary team
- Recognize flow, reliability, and delivery metrics useful for decision-making
- Hands-on workshop: mapping quality responsibilities and feedback loops for a fictional DevOps team

[Day 1 - Afternoon]

Quality in the Value Stream

- Describe the stages of the value stream from idea to production
- Position quality, defect prevention, and testing activities within each stage of the cycle
- Apply “shift left” and “shift right” approaches to strengthen feedback
- Assess organizational levers: culture, skills, governance, collaboration, and constraint management
- Prepare exam questions on the implementation of DevOps within an organization
- Hands-on workshop: Develop a plan to integrate QA activities into the value stream of a digital product

[Day 2 - Morning]

Testing and automation in the DevOps loop

- Break down the DevOps loop and identify the quality controls associated with each phase
- Distinguish between the automated and manual tasks required for a controlled delivery
- Define the role of automated testing in a CI/CD pipeline
- Identify the role of manual, exploratory, and risk-based testing in a DevOps organization
- Analyze the criteria for selecting, maintaining, and ensuring the reliability of automated tests
- Hands-on workshop: Design a testing strategy for a CI/CD pipeline that includes automated checks and manual validations

[Day 2 - Afternoon]

Tools, best practices, and exam preparation

- Identify the categories of tools that support collaboration, governance, automation, and observability
- Align Quality Engineering practices with security, performance, and resilience
- Interpret test results, incidents, and metrics to drive continuous improvement
- Review key concepts from the syllabus and common pitfalls in multiple-choice questions
- Implement a time-management and question-reading strategy for the CT-QDO exam
- Hands-on workshop: Take a mock exam with feedback and analyze the answers based on the Learning Objectives

Target Audience

This training is intended for both individuals and companies—large or small—that wish to train their teams in new, advanced IT technologies or to acquire specific industry knowledge or modern methods.

Placement Assessment

The pre-training assessment complies with Qualiopi quality standards. Upon final registration, the learner receives a self-assessment questionnaire that allows us to evaluate their estimated proficiency in various types of technologies, as well as their expectations and personal goals for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could pose challenges for monitoring and ensuring the smooth running of the training session.

Teaching Methods

Hands-On Training: 60% Practical, 40% Theoretical. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the instructor—supported by examples and reflection sessions—and group work.

Assessment

At the end of the session, a multiple-choice quiz is administered to verify that participants have successfully acquired the skills.

Certification

A certificate will be issued to each trainee who has completed the entire training program.