



QAI - Certified Software Tester (CSTE)

Overview

The Certified Software Tester (CSTE) certification is intended to establish standards for initial qualification and provide direction for the testing function through an aggressive educational program. Acquiring the designation of Certified Software Tester (CSTE) indicates a professional level of competence in the principles and practices of quality control in the IT profession. CSTE's become members of a recognized professional group and receive recognition of their competence by business and professional associates, potentially more rapid career advancement, and greater acceptance in the role as advisor to management.

Who Should Attend?

This course is for individuals appearing for the CASQ examination. The individuals can include:

- Project Leads
- Project Managers
- Software Quality Analysts
- Software Consultants

Course Outcome

After the completion of the course, the participants would be able to:

- Build the Software Testing Ecosystem.
- Comprehend the project staffing, project planning, budgeting, and monitoring work and ensuring that changes to the project plan are integrated into the test plan.
- Comprehend the risk in the Software Development Life Cycle.
- Plan tests, including the selection of techniques and methods to be used to validate the product against its approved requirements and design.
- Execute the tests from Acceptance Testing across the SDLC, Unit, Integration and System testing as well as UAT and testing COTS software.
- Identify individual test conditions.

- Develop testing status reports.
- Comprehend specialized technologies of web application testing, mobile application testing, testing within an Agile framework, Cloud base applications, DevOps application testing, and the Internet of Thing.

Duration

5 days

Certificate

Certified Software Tester (CSTE)

Certification Body

Quality Assurance Institute, US

Course Outline**Lesson 1: Understanding Software Testing**

- Understand the Importance of Testing
- Identify Quality Parameters
- Identify Factors That Affect Software Quality
- Identify Quality Assessment Standards and Models

Lesson 2: Understanding the Test Process

- Identify Test Phases
- Understanding the Testing Workbench Process
- Understand the Incident Life Cycle
- Identify Test Documents

Lesson 3: Understanding Test Levels

- Understand Component Testing
- Understand Integration Testing
- Understand System Testing
- Understand Acceptance Testing

Lesson 4: Understanding Testing Techniques

- Identify Structural Testing Techniques
- Identify Functional Testing Techniques

Lesson 5: Examining Test Case Design Techniques

- Identify Structure-Based Test Design Techniques
- Identify Specification-Based Test Design Techniques
- Identify Experience-Based Test Design Techniques

Lesson 6: Planning and Estimating Tests

- Create a Test Plan
- Estimate Testing Effort

Lesson 7: Handling Risks in Software

- Identify Software Risks
- Manage Risks

Lesson 8: Implementing Tests

- Understand the Test Development Process
- Create Test Cases
- Analyze Test Metrics
- Analyze Defect Management

Lesson 9: Reporting on Tests

- Define Test Metrics for Test Reports
- Identify Test Reporting Tools
- Create Test Reports
- Perform Test Closure Activities

Lesson 10: Building a Test Environment

- Identify Management Responsibilities
- Understand Management Process Models
- Managing Test Administration

Lesson 11: Managing a Test Project

- Identify Skills Required to Supervise a Test Project
- Identify the Leadership Skills to Manage a Project
- Introduce Tools into an Organization

Lesson 12: Testing Software Developed by External Organizations

- Analyze COTS Software Test Process
- Analyze Contracted Software Test Process

Lesson 13: Testing Software Controls and the Adequacy of Security Procedures

- Analyze Internal Controls
- Analyze Security Trainings

Lesson 14: Testing New Technologies

- Analyze the Impact of Testing New Technologies
- Analyze the Challenges of Testing New Technologies