

Certified Tester, Foundation Level (CTFL)

Course length: 3.0 days

Course Description

You know how to implement software testing practices and methodologies in real-life work situations. Now that you have this basic knowledge, you may want to increase your software testing skills or obtain a certification in software testing. This course builds on your existing software engineering and software testing concepts to enhance your fundamental software testing skills and concepts so that you can implement them in practical applications of software testing. In addition, this course prepares you for the International Software Testing Qualifications Board (ISTQB) - Certified Tester Foundation Level (CTFL) certification.

Course Objective: You will prepare for the International Software Testing Qualifications Board (ISTQB) - Certified Tester Foundation Level (CTFL) certification.

Target Student: This course is intended for both entry-level and experienced IT professionals, such as software engineers and software test engineers, interested in developing software testing skills or obtaining a certification in software testing.

Prerequisites: To take this course we recommend that students have familiarity with basic principles of software testing, such as software models, the software testing life cycle, testing approaches, and testing types. The students also need to have a basic understanding of creating test plans, creating and executing test cases, and managing incidents.

Delivery Method: Instructor led, group-paced, classroom-delivery learning model with structured hands-on activities.

Performance-Based Objectives

Upon successful completion of this course, students will be able to:

- Describe various software development models.
- Explain testing.
- Explain test levels.
- Explain test types.
- Plan and estimate tests.
- Apply test design techniques.
- Develop tests.
- Implement tests.
- Report tests and perform test closure activities.
- Identify testing tools.

Course Content

Lesson 1: Understanding Software Development Models

Topic 1A: Understand the Waterfall Model

Topic 1B: Understand Iterative-Incremental Development Models

Topic 1C: Understand the V-Model

Lesson 2: Understanding Testing

Topic 2A: Understand the Importance of Testing

Topic 2B: Identify Basic Testing Terms

Topic 2C: Understand Testing Principles



Topic 2D: Understand the Test Process
Topic 2E: Identify Test Documents
Topic 2F: Understand the Responsibilities of the Testing Team

Lesson 3: Understanding Test Levels

Topic 3A: Understand Component Testing
Topic 3B: Understand Integration Testing
Topic 3C: Understand System Testing
Topic 3D: Understand Acceptance Testing

Lesson 4: Understanding Test Types

Topic 4A: Understand Functional Testing
Topic 4B: Understand Nonfunctional Testing
Topic 4C: Understand Static Testing
Topic 4D: Understand Dynamic Testing
Topic 4E: Understand Other Test Types

Lesson 5: Planning and Estimating Tests

Topic 5A: Understand Test Planning
Topic 5B: Identify Risks
Topic 5C: Specify the Test Approach
Topic 5D: Understand Test Scheduling
Topic 5E: Create a Test Plan

Lesson 6: Applying Test Design Techniques

Topic 6A: Apply Specification-Based Techniques
Topic 6B: Apply Structure-Based Techniques
Topic 6C: Apply Experience-Based Techniques

Lesson 7: Developing Tests

Topic 7A: Understand the Test Development Process
Topic 7B: Create Test Cases

Lesson 8: Implementing Tests

Topic 8A: Create Test Suites
Topic 8B: Create Test Logs
Topic 8C: Create Incident Reports

Lesson 9: Reporting on Tests and Performing Closure Activities

Topic 9A: Identify Test Metrics and Measurements
Topic 9B: Create Test Summary Reports
Topic 9C: Perform Test Closure Activities

Lesson 10: Identifying Testing Tools

Topic 10A: Understand Automation Tools
Topic 10B: Identify Tools to Manage the Testing Process
Topic 10C: Identify Tools for Static Analysis
Topic 10D: Identify Tools for Test Specification
Topic 10E: Implement Tools to Execute and Log Tests
Topic 10F: Implement Performance Testing and Monitoring Tools
Topic 10G: Identify Other Testing Tools
Topic 10H: Introduce Tools into an Organization

Appendix A: Certified Tester Foundation Level

