# ISTQB Certified Tester Foundation Level (v4.0) Training

Duration: **3 Day**

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The **ISTQB Certified Tester Foundation Level (CTFL)** certification is the global benchmark for professionals seeking a strong foundation in **Software Testing**, **Quality Assurance**, and **Test Management**.

The syllabus provides a comprehensive understanding of testing concepts, terminology, and best practices applicable across modern software delivery approaches, including **Waterfall**, **Agile**, **DevOps**, and **Continuous Delivery** environments.

The **CTFL certification** serves as the prerequisite for advanced**ISTQB certifications** worldwide.

## Prerequisites

There are no prerequisites for attending this course.

The certification is suitable for anyone who wants to demonstrate practical knowledge of**Software Testing Fundamentals**.

## Who Should Attend

- Software Testers
- QA Engineers
- Test Analysts
- Test Managers
- Quality Assurance Specialists
- Business Analysts
- Software Developers
- Project Managers
- Scrum Team Members

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## What You Will Learn

By the end of this course, participants will be able to:

- Understand **Software Testing Fundamentals**
- Apply testing principles in real-world projects
- Select appropriate testing approaches
- Improve documentation quality
- Increase testing efficiency and effectiveness
- Align testing activities with the software development lifecycle
- Apply **Test Management** principles
- Create clear and effective defect reports
- Understand testing priorities and risk factors
- Work effectively within cross-functional teams
- Evaluate the benefits and risks of **Test Automation**
- Report testing progress and software quality effectively

## Training Outline

### 1. Fundamentals of Testing

### Software Testing Fundamentals

- Testing principles
- Test process
- Test objectives
- Software quality concepts
- Defects, errors, and failures

### 2. Testing Throughout the Software Lifecycle

### Software Development Lifecycle Testing

- Waterfall Testing
- Agile Testing
- DevOps Testing
- Continuous Delivery Testing

### Test Levels

- Unit Testing
- Integration Testing
- System Testing
- Acceptance Testing

### Test Types

- Functional Testing
- Non-Functional Testing
- Regression Testing

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- Maintenance Testing

## 3. Static Testing

## Static Testing

- Reviews
- Walkthroughs
- Inspections
- Static Analysis

## 4. Test Analysis and Design

## Test Design Techniques

### Black Box Testing

- Equivalence Partitioning
- Boundary Value Analysis
- Decision Tables
- State Transition Testing

### White Box Testing

- Statement Coverage
- Branch Coverage

### Experience-Based Testing

- Exploratory Testing
- Error Guessing

## 5. Test Management

## Test Management

- Planning
- Estimation
- Risk Management
- Monitoring
- Control
- Reporting

## 6. Tool Support and Test Automation

## Test Automation

- Testing Tools
- Test Frameworks
- Automation Strategies
- Tool Selection
- Tool Adoption

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## Certification

Upon completion, participants will be prepared for the **ISTQB Certified Tester Foundation Level (CTFL v4.0)** examination.

This globally recognized **Software Testing Certification** validates expertise in **Software Testing Fundamentals**, **Quality Assurance**, **Test Management**, **Agile Testing**, **DevOps Testing**, and **Test Automation**, providing a strong foundation for career growth in software quality and testing.