

Unit Testing with C#

Duration: 2 Days · **Training format:** Virtual Classroom / Online

Description

"Unit Testing with C#" training is a training program that teaches you how to implement unit tests, a type of testing used in the software development process, in the C# programming language. In this training, software developers are taught the basic concepts and techniques of unit tests used to verify their code, detect errors and ensure the expected behavior of the software. Unit tests are automated tests written to verify whether a particular component of the software (usually a function, method, or class) is working correctly. These tests isolate different parts of the software, helping to check whether each part produces the expected results. In this way, the software Possible errors are detected and eliminated at an early stage, thus creating a more reliable and robust software development process.

Outline

Understanding Unit Testing Basics

- Introduction to unit testing
- Why is unit testing important?
- Benefits and challenges of unit testing
- Overview of popular unit testing frameworks

Writing Your First Unit Tests in C#

- Create a unit test project in Visual Studio
- Write basic unit tests in C#
- Understanding test fixtures, test methods, and claims

Unit testing and functional testing

Preparation of the test environment

Working with xUnit.net and NUnit

Writing your first test

Test execution and debugging

Expand the scope of testing

Manage test cases

Test-driven development (TDD)

Continuous integration

Prerequisites

Complete the Test Automation-Basic (International Test Automation) training