



Aspect Training

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YOUR COURSE, YOUR WAY - MORE EFFECTIVE IT TRAINING

Unit Testing Introduction

Duration: 3 days

Overview:

Aspect Training's .NET Unit Testing training class teaches experienced .NET developers how to perform unit testing in their .NET applications.

Note: This class can be taught using Visual Studio 2012, 2013, 2015 or 2017.

Prerequisites:

All attendees should have a working knowledge of C# or VB.

Topics:

1 - Introduction

Justification for Testing

Value Proposition

Technical Debt

Benefit to Developers

The Role of QA

2 - Levels of Testing

Unit Testing

Integration Testing

Systems Testing

3 - Styles of Testing

Unit Testing Code

Test Driven Development

Behaviour Driven Development

Value Driven Development

4 - What to Test

Understanding Side Effects

Issues You'll Face

Biggest Bang for the Buck

5 - Automation

Running Tests During Build

Continuous Integration

Eliminating "But it works on my box"

Reporting

Notifications

6 - Helpful Tools

Organizing with BDD Utilities

Introduction to Mocking Frameworks

7 - How to Get Started

Overcome Blank Page Syndrome

Breaking Down Problems

Finding Purity

Effectively Using Interfaces

8 - Techniques for Organizing Code

Object Oriented Principles

Identifying Dependencies

Isolating What Changes

Inversion of Control

Dependency Injection

9 - Taking Control

Patterns to Support Composability

Techniques for Managing State

Utilities for Simplifying Tests