



## 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.

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## 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