

Test-Driven Development Training with VB.Net

Test-Driven Development (TDD) is an advanced object-oriented programming technique intended to help you write software that has better structure, in less time, with no defects. TDD achieves this goal by strongly encouraging the separation of business logic from presentation logic, minimizing the time spent doing repetitive manual debugging, and verifying that the code exactly meets the requirements.

TDD programmers use the xUnit¹ family of automated unit-testing framework to create test fixtures for each business object as they are writing their application code. The xUnit frameworks were developed by and for the Extreme Programming (XP) community. TDD is one of the core practices of XP, but experience has shown that TDD can help programmers of all stripes, not just the extremos.

Class language options...

The Test-Driven Development class can be presented using VB6-SP5, C#, or VB.Net (we will add Java, if there is sufficient interest). Each class will teach TDD within the context of only one of these programming languages.

What you will learn...

- Mechanics of Test-Driven Development
- How to install and use one of the xUnit Frameworks
- How to write clean, simple code
- How to verify that requirements are met
- How to test everything that could possibly break
- How to refactor code to eliminate duplication and clearly reveal intent.

Course prerequisites...

TDD is an advanced programming course. As such, it is important that each participant have a solid understanding of the code constructs, libraries, and idioms of the target language. The first course is for VB.Net programmers.



Hands-on exercises...

There are three hands-on exercises included in this training. Each was carefully chosen to demonstrate the use of TDD. The problem domains are widely understood and contain just the right amount of complexity to fit within the time of the training.

- **Hello World** demonstrates the installation of the xUnit framework, how to setup a project for TDD, and how to write a simple test fixture
- **USGA Handicap Differential** applies the skills gained from Hello World and adds more complex tests, refactoring, and testing everything that could possibly break
- **Bowling Game** further extends the learning of TDD by writing more complex test cases, doing extensive refactoring, and integrating the class library with an existing GUI component.

Schedule...

Intro to Test-Driven Development with VB.Net
Course #03/WD WD6-450-SA \$1,650

Tue. Wed. Thr. – March 30,31, April1
Metro Community College Sarpy Center
9110 Giles Street

To register

Register by phone...its easy.

Just call **457-5231**

Outside Douglas and Sarpy Counties call
toll free **1-800-228-9553**
(not available on Saturday)

TELEPHONE REGISTRATION HOURS

7:30 a.m. – 7:00 p.m. Monday-Thursday

7:30 a.m. – 6:00 p.m. Friday

7:30 a.m. – 1:00 p.m. Saturday

THE OPERATOR WILL NEED

1. Your name, address and phone number
2. Your Social Security number
3. The course number

For program content information, contact

Stacy Sell at 1-877-295-7270

For registration information, contact

Sharon Robinson at 457-2571