



**CONTINUING EDUCATION  
IN  
SOFTWARE ENGINEERING AND QUALITY  
Winter 2008 Course Listing (9 Weeks)**

**PRINCIPLES OF  
SOFTWARE TESTING**

This class provides preparation for employment as a software tester. The course also includes preparatory material for the ISTQB software testing certification exam.

Overview of Foundation Topics:

- Software Engineering
- Software Quality
- Software Quality Engineering
- Software Quality Assurance

In-Depth Instruction in:

- Software Test Engineering
- Software Testing

Test Engineering segment includes:

- Test engineering roles/responsibilities
- Test planning documents
- Test reporting documents
- Defining scope, schedule and resources for testing
- Testing metrics

Testing segment includes:

- Tester roles and responsibilities
- Testing principles, test types
- Testing approaches, test classes
- Test execution documents

The course utilizes common standards employed in structured software development.

**Textbook:** Discussed in class

**Duration:** 8 class meetings

**Location:** Room B-303, Miramar College

**Instructor:** Schwartz

Day	Time	Start	End	Fee
Tue	7:30-10pm	1/29	3/18	\$395

The Instructor: Leonard Schwartz has 23 years of experience with complex systems and software development, beginning with the GPS Satellite constellation (Block 1) in the 1980s. He has managed systems and software development projects in aerospace/defense and the commercial sector since 1987. He is a Master Teacher with 13 years experience in vocational education and holds an MBA from the University of Southern California.

**AGILE SOFTWARE DEVELOPMENT  
APPROACHES**

The Agile software development body of knowledge offers several alternative approaches to traditional, “heavyweight” software development. This course will identify, discuss, analyze and compare/contrast 10 Agile development approaches.

Common traits of traditional software development approaches:

- Are bureaucratically-managed
- Employ a linear, sequential process
- Attempt to capture a replicable, “universal” process (“one size fits all”)
- Are formal, rational, goal-driven.

Agile development offers several deliberate, flexible software development approaches which:

- Are opportunistic and process driven
- Provide for concurrent, overlapping SDLC phases
- Allow for unique, object-oriented development
- Provide for iterative, negotiated and collaborative requirements, design and implementation.

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Day	Time	Start	End	Fee
Thu	7:30-10pm	1/31	3/20	\$495

**Courses Run 8 Weeks  
Conducted at Miramar College  
10440 Black Mountain Road  
San Diego, CA 92126 (Mira Mesa)**

**Registration via Credit Card Online  
([www.quality-vectors.com/courses](http://www.quality-vectors.com/courses) and click  
“Enrollment”)  
Registration via Check/Cash in the Class  
Late Registration is O.K.**

**Parking Permits Required Nightly!  
(Lot Vending Machines Available)  
(Note: Parking enforcement is rigorous.)**

**COURSES PRESENTED BY**

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