

How to Develop Quality Software

Duration

1 day

Instructor

Robert Sabourin

Class Limit

20 students

Prerequisite

None

Price

On-site

Please contact SPC
for pricing (contact
information on page 2)

Public Training

\$595 (1 day)

*Discount available for
early registration

Materials Provided

- Student manual containing the course slides
- Student handouts with class exercises

Developing quality software is more than producing defect-free code. It involves techniques that allow you to understand and measure what real quality means for your software products. How to Develop Quality Software is a one-day seminar that walks participants through the key philosophies of software engineering, basic truths and how they can influence getting software projects delivered on time, on-quality and on-budget.

The session focuses on “what works”, “what does not work” and how the blend of business and technical project context influences the development approaches you should take.

Learning topics include:

- Various software development lifecycle models highlighting the key elements of software quality assurance
- How quality software can be developed focusing on the three principal workflows of a software development project, Requirement Management, Configuration Management and Test Management
- Different approaches to collecting, documenting and effectively implementing software requirements for application capabilities, constraints and challenging quality factors.
- The basics of configuration management including how to choose which sets of software development artifacts to manage
- How software traceability is best utilized so that development efforts and testing completeness can be assessed
- Different approaches to testing including, Static Analysis, Reviews, Walkthroughs and Formal Inspections. Scripted, Exploratory and Automated testing are contrasted.
- The key roles and responsibilities in a software-engineering project.

How to Develop Quality Software brings together principles and practices for building quality software that delivers exceptional business value without overburdening people with heavy processes and procedures.

Intended Audience

This seminar is ideally suited to analysts, project managers, quality assurance staff, software purchasers, and managers wanting to review modern software quality practices.

TRAINING

How to Develop Quality Software

Instructor

Robert Sabourin has more than twenty-five years of management experience, leading teams of software development professionals. A well-respected member of the software engineering community, Robert has managed, trained, mentored, and coached hundreds of top professionals in the field. A popular writer and conference speaker, he frequently delivers keynote presentations and session tracks on software engineering, SQA, testing, management, and internationalization. The author of *I am a Bug!*, the popular software testing children's book, Robert is an adjunct professor of Software Engineering at McGill University

Outline

- Some Philosophy
 - On time
 - On quality
 - On budget
 - Notions of what is “good enough”
 - Dealing with change
- Lifecycle Models Explored
 - Waterfall
 - Iterative
 - Agile
 - Evolutionary
- Software Quality in Context
 - Business context drivers
 - Technical context drivers
 - Organizational drivers
 - Roles and responsibilities
- Software Quality Key Workflow Focus Areas
 - Requirements
 - Elicitation
 - Elaboration
 - Implementation
 - Types
 - Configuration Management
 - Artifacts that matter
 - Building
 - Tracing
 - Coverage
 - Completeness
 - Testing
 - Static analysis
 - Reviews
 - Walkthroughs
 - Inspections
 - Software testing
- Getting things done
 - High impact
 - Baby steps
 - Change
 - Turbulence
 - Real world case studies
 - Some failures
 - Some successes
- Summary & Wrap Up



For more information on this or other SPC Springboard courses, please visit www.spcspringboard.com or e-mail SPC at info@spc.ca

Software Productivity Center Inc.
Suite 460 - 1122 Mainland Street
Vancouver, BC V6B 5L1

Vancouver: 604.662.8181 Toll Free: 1.877.548.1948

Fax: 604.689.0141

