

# Ross Collard's Performance, Load and Stress Testing

## **Duration**

2 days

## **Instructor**

Roland Stens

## **Class Limit**

20 students

## **Prerequisite**

None

## **Price**

On-site

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

Public Training

\$1095 (2 days)

\*Discount available for  
early registration

## **Materials Provided**

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

The development, delivery and implementation of quality software is getting more competitive year over year. One of the most time-consuming aspects of product development is the testing of software deliverables for quality and stability. Finding performance problems late in the development cycle is costly and damaging.

Performance, load and stress testing are quickly gaining importance in today's development environments. Determining product readiness and identifying and resolving issues that would otherwise impact application performance is a critical phase within the development lifecycle, and one with little room for error. Given the high-pressure nature of these activities, it's imperative that those involved have a thorough understanding of planning strategies along with the methods for implementing and analyzing performance testing. Customers depend on it.

Ross Collard's Performance, Load and Stress Testing is a two-day workshop designed to provide attendees with a solid understanding of the concepts, practices and testing activities required for complete performance testing.

This practical, hands-on course goes beyond the basics of feature testing; it provides participants with testing skills that can be put to use right away. Centered on a challenging, real-world case study, students encounter the same issues, decisions, and comparable testing experiences as in their own work environments. The methodology includes a mix of instructor-led discussions, team exercises and group work, and student-delivered presentations.

At the end of the seminar, participants will be able to:

- Develop an overall test strategy
- Understand the performance management lifecycle
- Specify performance requirements
- Test system performance, response time and throughput
- Test the ability to handle load and stress
- Automate performance, load and stress testing
- Recognize key success factors for performance testing

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## Ross Collard's Performance, Load and Stress Testing

### **Intended Audience**

This seminar is ideally suited to QA testers, analysts and engineers who need to develop a working knowledge of performance test planning and performance testing.

### **Instructor**

Roland Stens is an independent consultant based in Vancouver who specializes in QA and testing, particularly performance and robustness testing. His extensive background in system analysis, programming, database and network management, testing along with project/test management enables him to relate to all the issues at play during the software development lifecycle. Roland is one of North America's leading instructors for Ross Collard's testing workshops.

Ross Collard is president of Collard & Company, and specializes in software testing and quality assurance. His consulting assignments have included strategic planning for technology, managing large software development projects, and development of software engineering practices. His clients have included Amazon.com, American Express, Boeing, General Electric, Hewlett Packard, IBM and NASA. Ross has an MS in Computer Science from the California Institute of Technology and an MBA from Stanford University.

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For more information on this or other SPC Springboard courses, please visit [www.spcspringboard.com](http://www.spcspringboard.com) or e-mail SPC at [info@spc.ca](mailto:info@spc.ca)

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### **Outline**

- Develop an appropriate test strategy
- Test system performance, response time and throughput
- Test the ability to handle load and stress
- Evaluate whether systems resources are being utilized efficiently
- Test system robustness and capability to recover from errors
- Test across different configurations or versions
- Test systems for scalability
- Automate performance, load and stress testing
- Fundamentals of performance and robustness testing
- Determining the overall test strategy
- Using test automation for performance and robustness
- Planning the performance and robustness test project
- Developing the measurement strategy
- Developing the test work loads
- Developing the test cases
- Executing the test
- Evaluating the results
- Getting problems fixed
- Managing system performance



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