

CENTENNIAL COLLEGE

Software Quality Assurance & Testing (SQAT) Certificate

For more information:

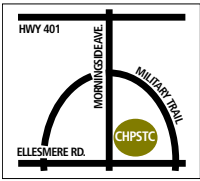
For general details, contact program support Joan Davis, jdavis@centennialcollege.ca, 416-289-5000, ext 2247.

For academic advice, contact program supervisor Mohamed Khan, 416-289-5000, ext 8291, mkhan@centennialcollege.ca.

For more information about all Centennial part-time computer courses, see centennialcollege.ca/computers.

How to find us

Our courses are offered evenings and weekends
centennialcollege.ca/maps



CENTENNIAL HP SCIENCE AND TECHNOLOGY CENTRE
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For more information:

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416-289-5207
Web: centennialcollege.ca/computers

TO REGISTER: go online to centennialcollege.ca/webreg, call 416-289-5300 or visit any campus Enrolment Services office.



Continuing Education – part-time evening, weekend and online courses and programs.

centennialcollege.ca/parttime

The Future of Learning

Certificate in

Software Quality Assurance & Testing

Program Code 7170

As software becomes more complex, it is necessary to establish processes and clear methodologies. Doing so will ensure that the end product has been exposed to intensive and rigorous industry-wide testing techniques and procedures. This will translate into a high degree of assurance that a software system passes the test for correctness and reliability. Beginners and those who already have an IT diploma/degree, or industry IT professionals seeking formal qualifications, would be interested in this certificate.

The SQAT certificate consists of five 30-hour courses; you need to take them in order of listing.

COMPLETION REQUIREMENTS:

- Introduction to Testing Principles & Methodologies SQAT-001
- Writing Testable Requirements SQAT-002
- Selecting & Implementing Software Testing Tools SQAT-003
- Managing the Testing Process SQAT-004
- Software Quality Assurance SQAT-005

For specific details, please visit centennialcollege.ca/computers

INTRODUCTION TO TESTING PRINCIPLES & METHODOLOGIES SQAT-001

Course content includes: test planning – structured and object-oriented software testing techniques and strategies; test execution, environments and case design; inspection techniques – verification and validation techniques; software project metrics – metrics and how to use them.

30 hours

WRITING TESTABLE REQUIREMENTS SQAT-002

This course provides techniques on how best to write requirements. With properly written requirements, the next step is to identify a set of tests that adequately cover those requirements.

30 hours

Prerequisite: SQAT-001 or equivalent knowledge/experience

SELECTING AND IMPLEMENTING SOFTWARE TESTING TOOLS SQAT-003

This course examines the automated software test tool environment and presents discussions of which types of tools to consider, and what their potential impact is on a project or an organization – selection criteria and implementation challenges are discussed in depth. Strategies for success are presented.

30 hours

Prerequisite: SQAT-002 or equivalent knowledge/experience

MANAGING THE TESTING PROCESS SQAT-004

This course covers the tools needed to succeed as test managers. Topics covered include important techniques, critical testing processes, fundamental management skills, the contextual issues of test projects, such as the economics of testing, the test effort within the project, hardware resource management, the test lab, and what tests managers should know about testing hardware components.

30 hours

Prerequisite: SQAT-003 or equivalent knowledge/experience

SOFTWARE QUALITY ASSURANCE SQAT-005

Course content includes: process management – tailoring software processes; foundations and tools of software quality processes, and key standards and guidelines for software quality engineering. Additional topics are: introduction to risk management – the importance of identifying, mitigating and controlling software project risks; managing projects with software tools; planning for tools use on a software development project; and configuration management – processes for use throughout the product development life.

30 hours

Prerequisite: SQAT-004 or equivalent knowledge/experience