Overview:

Prepare a 5 to 10 minute presentation to the class about your assigned college / industry career related to computer and information science. Your topic will be assigned in class from the list at the end of this handout. Your presentation should follow the suggested outline below.

NOTE: Your presentation must make use of Ontario only sources and must focus on careers in the Greater Toronto Area.

YOU WILL ALSO BE EXPECTED to make notes on other presentations in order to prepare a final summary and report on careers that would most interest you.

Suggested Resources:

<https://www.ontariocolleges.ca/en/programs?q=&page=0>

Presentation Outline:

1. What the career is about
   1. What do you do?

* As a software tester is involved in the quality assurance stage of software development and deployment. Software testing involves the analysis of software, and systems, to avoid risk and prevent software issues. Your role is integral to the creation of software systems and technical products including vehicles, electronic goods, defense, and healthcare. Ultimately software testers are employed to find bugs and issues within a product before it gets deployed to everyday users. You might work on bespoke, individual projects or multinational projects spanning the globe and costing billions of pounds. You will need to be, or become, familiar with programming and using coding languages. Assessing code is one part of the role of a software tester.
* Another part of software testing involves causing the program to fail so the effects on the computer running it can be assessed.
  1. What are the work conditions?
* Working hours usually follow a standard office day of eight or nine hours, between 8am and 6pm. However, due to the nature of project work you may be required to work outside these times. On occasion this may mean working shifts and weekend work. This would be most likely to occur during periods of software deployment or if a project happens to be taking place across a variety of locations and time zones. Work is mainly office based and you will spend the majority of your time at a computer.
* Your role may be stressful at times, particularly around the time of project completion.
* Once you have gained adequate experience, you could progress into the freelance and contracting market. This would enable you to select specific projects and work more flexibly. However, working as a contractor may not provide the same benefits and job security in comparison to a permanent employee.
* The IT sector, including software testing roles, has a higher ratio of male to female workers. However, there is a higher ratio of female to male software testers when compared with other IT jobs (such as software development). Organizations working to encourage more females into software testing roles and IT careers include [Women in Technology](http://www.womenintechnology.co.uk/) and the [BCS (The Chartered Institute for IT)](http://www.bcs.org/).
* Companies employ software testers in many locations within the UK. The highest concentration is in large cities including London, Manchester, Edinburgh and Birmingham. There are also international opportunities, most notably in the USA and India, where a large number of off-shore software testing companies are based.
  1. Who are your customers?

1. Career Opportunities
   1. Salary expectations

* Software testers earn an average salary of C$51,194 per year in Canada. Some people in this field start at just C$35,000 per year, while others make C$75,000 per annum. The earnings depends on the software tester’s education and experience. Larger companies and those working on novel products may pay more than a smaller company, testing run of the mill software. Professionals working in software testing should expect to spend roughly 10 years at this level before moving into a senior testing or management role.
  1. Job numbers and availability
* The Software testing job market takes place in many different industries and with many different purposes. This includes processes in manufacturing equipment to health care, aeronautics to automobiles and retail stores.
* Those employed in software testing jobs may work in the testing and troubleshooting of these software applications at a development level, participate in testing the scale ability and business possibilities for a software, or in the testing of the software in the end product for performance.

1. Technology Connections
   1. What types of computers are used?
   2. What computer languages and environments are used?
2. Program requirements
   1. What high school credits are required?
   2. What do you need to get into a College program?
   3. What do you need to get into a University program?
3. College Programs
   1. What nearby colleges offer programs related to this area?

* Seneca College
* Sheridan College
* Conestoga College
* Confederation College
* Humber College
* Lambton College
* Durham College
  1. What types of programs are offered?

Works Cited

“Software tester.” *Prospects.ac.uk*, [www.prospects.ac.uk/job-profiles/software-tester](http://www.prospects.ac.uk/job-profiles/software-tester).

*MyBlueprint*, core.myblueprint.ca/V5/Guide.

“Software testing Jobs In Toronto, Ontario - Toronto Software testing Jobs.” *Monster*,

[www.monster.ca/jobs/q-software-testing-jobs-l-toronto,-on.aspx](http://www.monster.ca/jobs/q-software-testing-jobs-l-toronto,-on.aspx).

Presentation Notes & Report Guidelines

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| --- | --- | --- | --- |
| Career & Presenter | What You Liked | What You Disliked | How can you meet the program requirements |
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Report Questions:

1. If you were to choose a career in Computer and Information Science which one would it be? What do you like most about this career that makes it better than other careers?
2. What would you need to do to qualify for this career?
3. What college program would you want to apply to?

Topics:

1. Computer Application Designer
2. Computer Mobile Designer
3. Computer Programmer / Analyst
4. Computer Software Designer
5. Web Design / Development
6. Internet Application Programmer
7. Computer Gaming
8. Computer Repair
9. Computer Maintenance
10. Computer Systems Specialist
11. Computer Engineering Specialist
12. Computer Networking Specialist
13. Computer Communications Specialist
14. Computer Security Specialist
15. Information Management
16. IT Support Specialist
17. Robotics / Automation Specialist
18. Software Testing / Verification
19. Data Processing Operator
20. Database Designer