SOFTWARE QUALITY ASSURANCE John Abbott College JPC Course Overview

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Software Quality Assurance

Course Outline

- Textbook
- Syllabus
- Evaluation
- Expectations

Textbook

Kaner, C., J. Falk, & H. Q. Nguyen (1993). *Testing Computer Software, Second Edition.* International Thomson Computer Press (London). ISBN 1-85032-847-1. xv + 480. Index.

Syllabus -- Lectures

Day 1

- Software QA Case Studies
- Philosophy and psychology of QA
- Inspections / Walkthroughs / Reviews
 Day 2
- Types of testing
 - Module (Unit) Testing
 - Higher-Order Testing
- Types of errors

Day 3

- Designing good tests
- Automated testing

Syllabus -- Readings

<mark>Day Chap</mark>	ters	<u>.</u>
1	1:	An example test series
	2:	The objectives and limits of testing
software	14:	Legal consequences of defective
2 software	3:	Test types and their place in the
		development process
	4:	Software errors
	Appe	ndix: Common software errors
3	7:	Test case design
	11:	Testing tools
	13:	Tying it together

Expectations

- Classes begin sharp 08:59:45 & end no later than 13:59 (but expecting 11:45)
 - Do not be late
 - Absence from class requires valid explanation else expulsion from course
- Scan chapters in preparation for next day
- Read chapters at end of day and review using class notes
- Write out answers to review exercises from instructor and submit for credit
- Group submissions not accepted: write out answers in your own words (and not merely blindly copied from textbook).

Evaluation

- Submit answers to exercises by 09:00 each day + at Cont. Ed. reception desk on the day after Day 3
- 25% off *per hour or part of hour* thereafter for late submissions.
- Teacher wants entire class to get 100%

Disclaimers

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A Preliminary Test

- Here is a triplet of numbers that follows a secret rule:
 - **2,3,5**
- Formulate an hypothesis about what underlying rule generates these numbers
- Write down a set of 3 other triplets that will help you decide whether your rule is correct; ask the instructor if your triplets are OK (accord with the actual underlying rule) or not.
- After the class discussion, write down your comments on what you have learned from this exercise and submit your notes tomorrow morning