

Agile Software Development Practices SOF2412 / COMP9412

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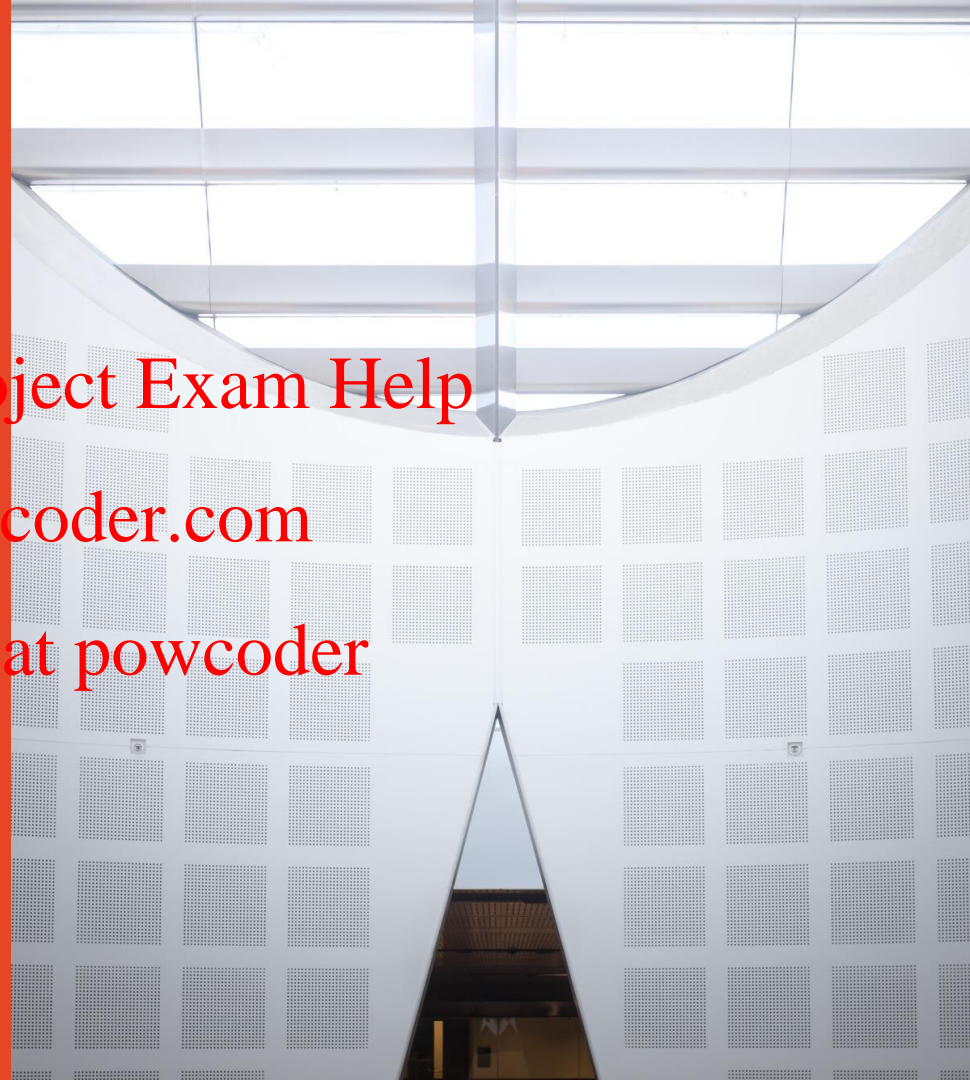
Unit Overview and Exam
Information

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School of Computer Science



Agenda

- SOFT2412/COMP9412 Topics
 - Topics Overview
 - Assessment Review
 - Unit Feedback
 - Exam Preparation
 - Exam Structure and Information
 - Advice
- Assignment Project Exam Help
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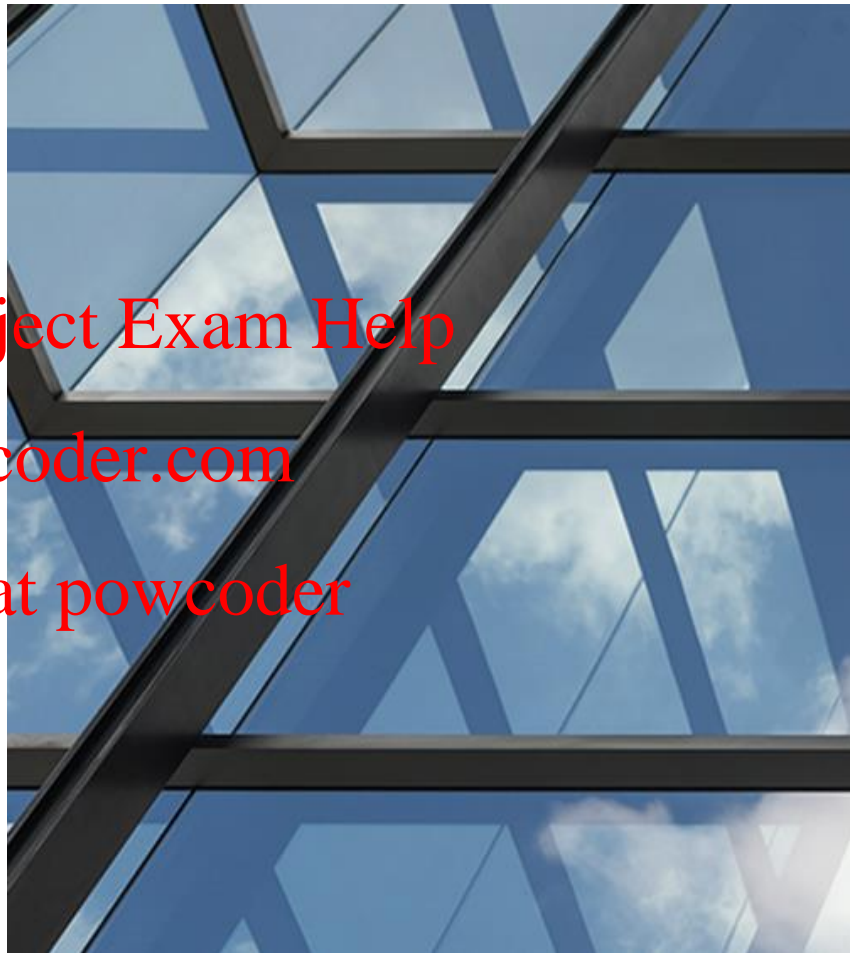
SOFT2412/COMP9412

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Topics Overview

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SOFT2412/COMP9412 – Topics Overview

WK	Topic
01	1. Introduction to software development processes; 2. Introduction to Git
02	Version control: Git team collaboration
03	Build automation: software build and configuration
04	Software quality assurance: software testing
05	1. Continuous integration (CI); 2. Continuous delivery/deployment (CD)
06	1. Group dynamics: tools and technologies for teamwork; 2. Issue tracking
07	Agile software development: Scrum method and agile team structure
08	Scrum method: expressing requirements
09	Scrum method: planning and estimation
10	Ethics, intellectual property, licensing and open-source software
11	1. Reflection: project experiences and lessons learned 2. Industry speakers
12	Review, Exam Structure

<https://www.sydney.edu.au/units/soft2412/2020-S2C-ND-CC>

Assessment

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Assessment – Revisit

What (Assessment)*	How	Value
Group project 1 – Software development using Agile tools	Group project	15%
Quiz 1 – Software development using Agile tools	Individual	5%
Group project 2 – software development using Scrum and Agile tools	Group project	25%
Quiz 2 – Software development using Scrum and agile tools	Individual	5%
Exam	Individual exam	50%

Group Project – SW Development

- Set-up of development environment with Agile tools and practices
 - GitHub, Gradle, Junit, Jenkins, CI practices
- Collaborative software development using the agile tools and environment
 - Currency converter Java application requirements
- Technical report to explain group work (understanding not only applying)
- Demonstrating group work
- Should have helped understanding how to apply principles and practices with tool support in Agile development projects
- Form of preparation for the exam (through practicing and documenting)

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Quiz 1 – Agile Development Tools

- Currency Application development using tools and practices
 - GitHub, Gradle, Junit, Jenkins, and CI practices

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- Demonstrate, explain and discuss the group/individual work

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- Effective communication of technical development and practices

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- Essential practice for Agile development teams in real workplace

- Practice for similar scenarios/questions

Group Project – Scrum Software Development

- Software development using Agile development tools and practices
 - Familiar/experienced agile tools (project 1)
- Scrum roles, events and artefacts, development process, progress monitoring
 - SM & PO, user stories, Backlogs, Sprints, Planning, Review, Retrospectives, Burndown charts, velocity, estimation
- Software development to experience Scrum & agile tools and practices
 - Vending machine software
- Sprints to iteratively implement increments of working versions of the software

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Group Project – Scrum Software Development

- Technical reports to be able to communicate work done and how Scrum followed

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- Weekly demos to client/customer

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- Understanding not only applying (what, how, and why) of Scrum events

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- Real experience of Scrum and Agile tools (how agile teams work in the industry)

- Form of preparation for the exam (through practicing and documenting)

Quiz 2 – Scrum Software Development

- Vending Machine application development using Scrum and tools and practices
 - **Scrum**, GitHub, Gradle, Junit, Jenkins, and CI practices

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- Demonstrate, explain and discuss the group/individual work

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- Effective communication of Scrum and technical development and practices

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- Essential practice for Scrum and Agile development teams in real workplace
- Practice for probable similar exam questions

Project experiences and lessons learned

Week 11	1. Reflection: project experiences and lessons learned 2. Industry speakers
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- Reflect on experiences from the 2 projects; Agile and Scrum development

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- Online survey after Sprint 3 submission

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- Individual 10-minutes online survey

- Reflection and contribution to improving the Scrum method

- More details to be announced

Assignment Feedback

- Group and individual feedback
 - Tutorials/tutors
 - Reports/demos/presentation feedback
 - Teammates
- Common feedback by tutors
 - Tools for Agile SW development
 - Software Development using Scrum and Agile tools
- Check your marks and feedback on Canvas

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Advice for doing well in this unit

– To do well in this unit you should

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– Organize your time well

– Devote 10 hours a week in total to this unit

– Read

– Think

– Practice

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“Tell me and I forget, teach me and I may remember, involve me and I learn.” – Benjamin Franklin

Use and Apply Agile Software Development Practices

- Development methods (team lead/software project manager)
- Underlying concepts and theories (with tweaks)
- Tools; GitHub, JUnit (other testing tools), Gradle, Jenkins, JaCoCo, Docker, JIRA Agile, Trello, other
- Group projects in other courses/units
- Capstone projects!
- Job interviews (software development/Engineer, DevOps, Software Project Management/Lead)
- Informal discussion with potential employers

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Unit of Study Feedback

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Unit of Study Feedback

- Continuous monitoring and evaluation during the semester
 - Tutors interactive feedback
 - Online discussions/Feedback
 - Assignment marking guides/criteria
 - Special consideration (assessments)
 - Many thanks to the teaching associates and tutors

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Unit of Study Feedback

- Continuous improvements based on former students and staff feedback
 - Improved lecture content
 - Topics and schedule, discussion questions (Q&As)
 - Guest/Industry Lecture (Allassian)
 - Improved tutorials
 - Better learning for supporting group projects work
 - Continuous feedback, demos and interactions with tutors
 - Experienced tutors (software developers/engineers)
 - Improved Assessments
 - Practical project on Agile tools set up and use in software development
 - Practical project on real software project using Scrum and Agile tools
 - Weekly sprints, clients, demo to clients,
 - Use of Agile tools

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Unit of Study Survey – Your Turn

- ONLINE survey

- SOFT2412 USS Survey
- COMP9412 USS Survey

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- Apple iPad Air 64GB
- Apple Watch
- 2 x \$200 JB HiFi Gift cards
- 6 x \$100 JB HiFi Gift cards

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Unit of Study Feedback 2019

- To share what you enjoyed and found most useful in your learning, and to provide constructive feedback
- To 'pay it forward' for the students coming behind you, so that their **learning experience** in this class is as good, or even better, than your own.
- When you complete your USS survey, please:
 - **Be relevant**
 - **Be specific**
 - Which class tasks, assessments or other activities helped you to learn? Why were they helpful?
 - Which one(s) *didn't* help you to learn? Why didn't they work for you?
 - **Be constructive**
 - What practical changes can you suggest to class tasks, assessments or other activities, to help the next class learn better?

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Exam Preparation

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Exam Preparation – Lectures

- All materials covered (week 1 to week 10)
 - Lecture slides except:
 - Code coverage tools, GitHub organization management, Trello, Asana JIRA,
- Supporting resources (book chapters, web resources)
- Questions discussed live during the Zoom lecture

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Exam Preparation – Tutorials

- All Lab/tutorial material (week 1 – week 10)
 - Lab/tutorial materials
 - Including all tools covered except Docker (and virtual machines), Test coverage reports with JaCoCo, Trello, JIRA

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Exam Preparation – Assessments

– Group Projects

- Understanding and use/applying concepts and theory
- Practical experience and hands-on
- Practical experience of report writing

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– Quizzes

- Multiple choice-questions
- True/False questions

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Exam Information

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Exam Information

- Open book exam
- Online Canvas with no supervision
- 2 hours writing time + 10 minutes reading time
- Answer in the provided space (text editor) or write on a paper with your Unikey and upload as a file
- Time for uploading answers (not for writing)
- Write your answers clearly and concisely
 - Use bullet points where appropriate
- Answer all questions

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Exam Marks

- Exam is worth 50% of your total mark
 - Exam is marked out of 100
 - **You need to get at least 40 marks in the exam to pass this subject!**

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Exam Questions (1)

- Multiple Choice and Multiple Answers questions (15 marks)
 - 10 questions on various topics
 - Multiple-choice: one correct answer
 - Multi answer: one or more correct answer (*Choose all that apply*)
 - 1.5 marks each

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Exam Questions (2)

- Scenario-based short question
 - One part
 - Answer questions based on the provided information in response to a scenario
 - Answer clearly and concisely
 - Use bullet points
 - Answer as instructed
 - Either in the provided space or write on a paper with your Unikey/SID and upload it

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Exam Questions (3)

- Scenario-based short question
 - Multiple short parts (related topics)
 - Answer questions based on the provided information in response to a scenario
 - Answer clearly and concisely
 - Use bullet points
 - Answer as instructed
 - Either in the provided space or write on a paper with your Unikey/SID and upload it

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Exam Questions (4)

- Scenario-based short question
 - Multiple short parts (related topics)
 - Answer questions based on the provided information in response to a scenario
 - Answer clearly and concisely
 - Use bullet points
 - Answer as instructed
 - Either in the provided space or write on a paper with your Unikey/SID and upload it

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Exam Questions (5)

- Scenario-based long question
 - A number of short parts (technical including code/script)
 - Answer questions based on the provided information in response to a scenario
 - Cover a number of parts
 - Answer clearly and concisely
 - Use bullet points
 - Answer as instructed
 - Either in the provided space or write on a paper with your Unikey/SID and upload it

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Exam Questions (6)

- Scenario-based long question
 - A number of short parts (technical related topics including code/script)
 - Answer questions based on the provided information in response to a scenario
 - Cover a number of parts
 - Answer clearly and concisely
 - Use bullet points where appropriate
 - Answer as instructed
 - Either in the provided space or write on a paper with your Unikey/SID and upload it

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Exam Questions (7)

- Scenario-based medium question
 - Multiple parts (different related topics)
 - Answer questions based on the provided information in response to a scenario
 - Answer clearly and concisely
 - Use bullet points where appropriate
 - Answer as instructed
 - Either in the provided space or write on a paper with your Unikey/SID and upload it

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Exam Questions (8)

- Scenario-based medium-long question
 - One part
 - Answer question based on the provided information in response to a scenario (include understanding and discussion)
 - Answer clearly and concisely
 - Use bullet points
 - Answer as instructed
 - Either in the provided space or write on a paper with your Unikey/SID and upload it

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Exam Questions (9)

- Scenario-based medium question
 - Multiple short parts (related topics including code/script)
 - Answer question based on the provided information in response to a scenario
 - Answer clearly and concisely
 - Answer as instructed
 - Either in the provided space or write on a paper with your Unikey/SID and upload it

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NOT in Exam

- Some tools (Code coverage tools, GitHub organization management, Trello, Asana JIRA)

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- Write software program (coding related to tools is included)

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- Docker tutorial Add WeChat powcoder

- Industry/guest lecture

Canvas Exam Environment – Tips

Question 1	1.5 pts
Question 1	1.5 pts
Question 13	8 pts

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Questions

- ? [Question 1](#)
- ? [Question 2](#)
- ? [Question 3](#)
- ? [Question 4](#)
- ? [Question 5](#)
- ? [Question 6](#)
- ? [Question 7](#)
- ? [Question 8](#)

Time Running: [Hide](#)

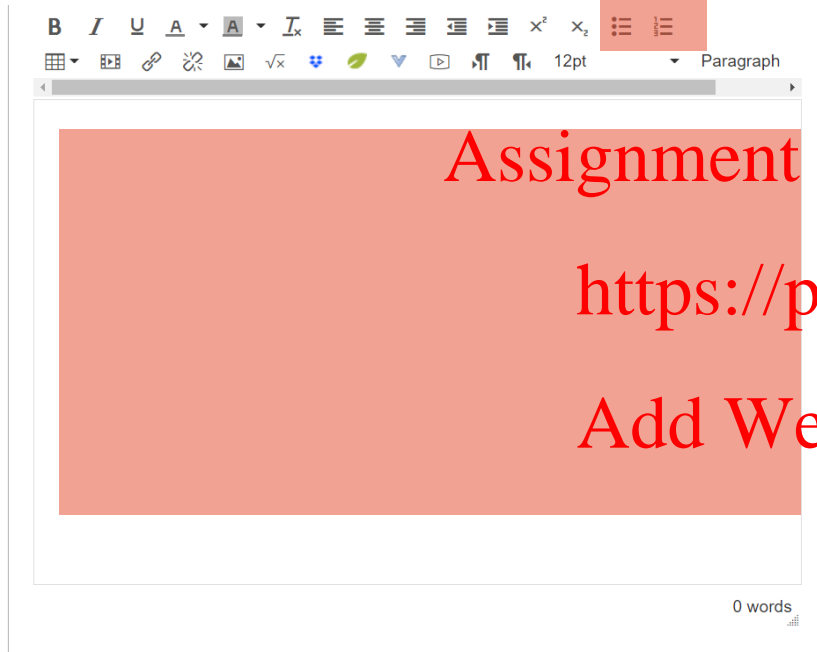
Attempt due:

1 Hour, 52 Minutes, 33 Seconds

Saved at 9:12

Submit Quiz

Canvas Exam Environment – Tips

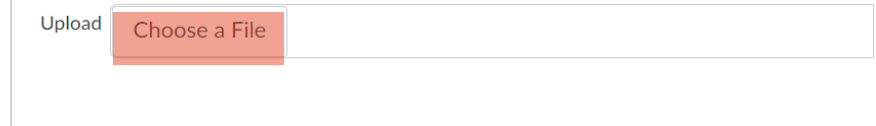


A screenshot of the Canvas exam environment. It shows a text editor with a red background. The toolbar at the top includes various formatting options like bold, italic, underline, text color, background color, and font size. The text "Assignment Project Exam Help" is written in red, followed by the URL "https://powcoder.com" and the instruction "Add WeChat powcoder". The bottom right corner shows "0 words".

Answer in the provided space

OR

Write your answer and upload as a file file



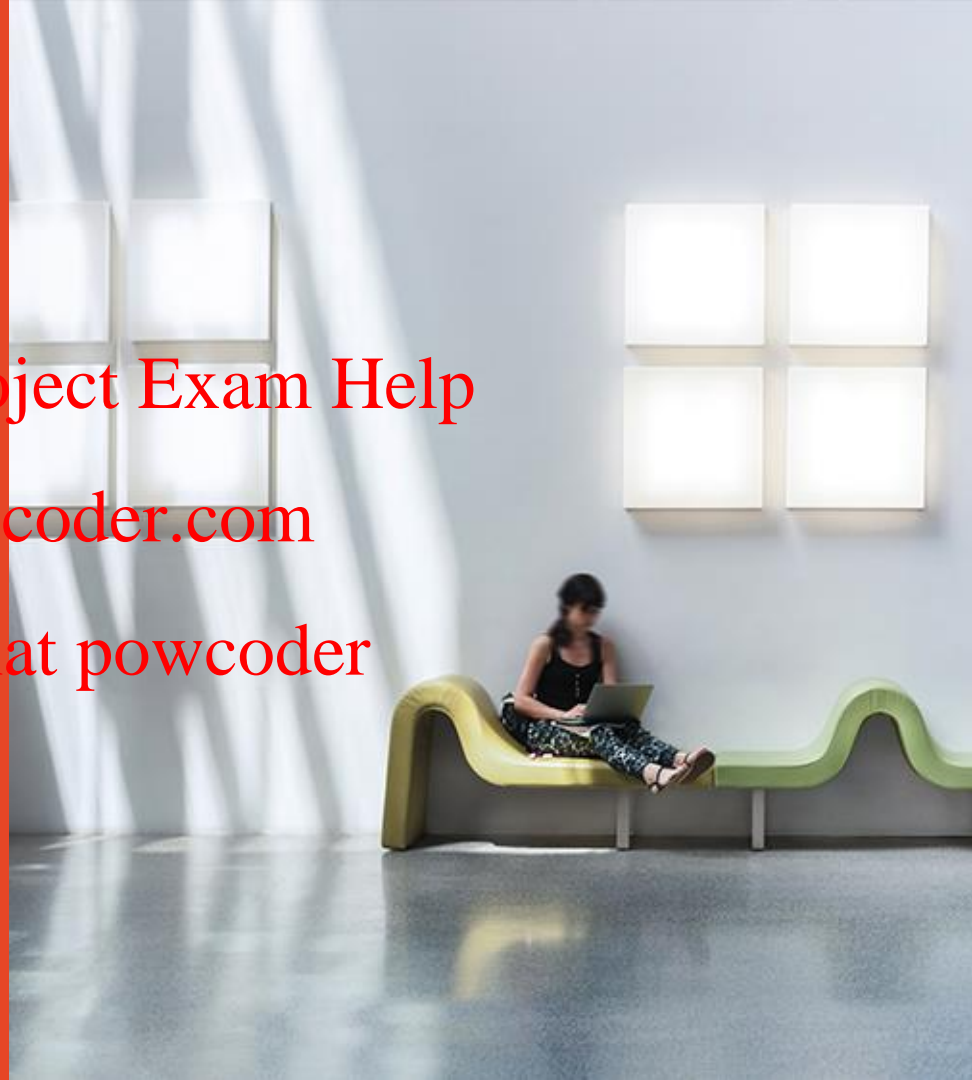
A screenshot of the Canvas exam environment showing an upload interface. It includes an "Upload" label, a "Choose a File" button, and a text input field.

Exam Technique

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Exam Preparation

- Lectures provided some discussion questions (individual and group) in class
- Assignments should have helped you to practice and apply concepts, methods, techniques, principles, etc
 - Problem solving in open and very extended time
- Quizzes should have helped you to practice some kind of exam questions
- On-going study and practice:
 - Study, practice and learn
 - Be efficient and effective
 - Be succinct (quality not quantity)

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Exam Preparation

- Individuals
- Study circles
 - Prepare with a group of classmates
 - Prepare and ask questions, answer questions, and give feedback
- Exam discussion board – Q&As

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Online Canvas Exam – Preparation

- Academic adjustment students check [this video outlining how to check your time adjustments](#)*
- Specific instructions for exam upload - [How to upload images to a quiz](#)*
- Review the [Student Charter, your academic integrity responsibilities](#), and the [integrity contract](#)*
 - Turnitin and other techniques will be used to identify answers similarity
 - Cases with high similarity will be reported to the academic integrity office
 - All previous cases were inspected, and severe penalties were applied

* Information and links also available on the canvas page of the exam

Online Canvas Exam – Preparation



This exam must be taken on a computer or laptop with satisfactory internet connectivity. It should NOT be taken on a mobile device.

It is recommended that you restart your computer, update your internet browser, and clear your browser's cache before beginning this exam. Google Chrome and Mozilla Firefox are the preferred browsers for accessing Canvas.

- [Clearing your cache for Google Chrome](#)
- [Clearing your cache for Mozilla Firefox](#)

If you are uncertain about a question during the exam, answer to the best of your ability. Do not contact the unit coordinator or other teaching staff during the exam. After the exam, email your unit coordinator with information including the question and question number.

If you encounter technical difficulties during the exam that you cannot fix, call ICT on +61 2 8627 1444 (option 3).

If you encounter technical difficulties during the exam that affect your ability to complete the exam you will need to describe your problems on a [Student Declaration](#) and apply for [Special Consideration](#).

Exam Technique

- Plan how you will allocate time (wisely)
 - Use “reading time” to check your understanding
 - Also to plan time allocation to questions
 - Plan the order of answering questions (e.g. answer easier ones first)
- Answer everything (get the “easy marks”)
 - Plan your answer and write answers relevant to the questions
 - Quality not quantity
- Write clearly and efficiently
 - If you are asked to list features, using bullet points is more efficient and easier to read
 - Answer as instructed (provided text space or write and upload)
 - Plan your answers on “rough work” pages

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Illness

- If you are unwell, and it seems that you won't be able to demonstrate your knowledge/skill properly, then you can **request special consideration**
- Follow the same procedure as during semester (get medical person to fill out special USyd form, hand it in within one week)
 - Check university policies
- Usual outcome: an alternate test, a few weeks later
- If you become sick during the exam itself, raise hand and speak to the invigilator
- The University goal is to get a fair assessment of what you have achieved

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Special Consideration (University Policy)

- If your performance on assessments is affected by illness or misadventure
- Follow proper bureaucratic procedures
 - Have professional practitioner sign special USyd form
 - Submit application for special consideration online, upload scans
 - Note you have only a quite short deadline for applying
 - http://sydney.edu.au/current_students/special_consideration/
- Also, notify coordinator by email as soon as *anything begins to go wrong*
- There is a similar process if you need special arrangements eg for religious observance, military service, representative sports

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Pragmatic Advice

- Check all the information on the Canvas exam page before the exam
- Prepare your PC and check your internet beforehand

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- Keep spare pens and papers

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- Bring water

- Be relax and stay focused

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- The exam will be based on the materials covered
 - It will examine the content of the course, with emphasis similar to lectures, labs, and assignments

Reminder

- To pass this unit you must do all of these:

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- Get a total mark of at least 50%
- Get at least 40% for your exam mark

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Good Luck!

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All the Best in your degree and
career!

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