**Assessment Coversheet**

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| **Student Name** | |  | | **CIT Number** |  | |
| **Competency Title, Code and Banner Code**  **CRN** | | Create Website Testing Procedures  ICTWEB406  INFT510 | | | | |
| **Assessment Type** | | Written  Case Study  Project  Practical  Other | | | | |
| **Assessment Name** | | Task Sheet 6 – Methodologies & Standards | | | | |
| **Assessment Date** | | 17th September, 2018 | | | | |
| **Student Statement:** This assessment is my own work. Any ideas and comments made by other people have been acknowledged. I understand that by emailing or submitting this assessment electronically, I agree to this statement. | | | | | | |
| **Student Signature** | |  | | **Date** |  | |
| **PRIVACY DISCLAIMER:** CIT is collecting your personal information for assessment purposes. The information will only be used in accordance with the CIT Privacy Policy. | | | | | | |
| **Assessor Feedback**  ❑ **Student provided with feedback** | | | | | | |
| **Attempt 1** | | **Satisfactory** | **Not Yet** **Satisfactory** | | **Date** | / / |
| **Attempt 2** | | **Satisfactory** | **Not Yet** **Satisfactory** | | **Date** | / / |
| **Assessor Name** |  | | **Assessor Signature** | |  | |
| **Note to Assessor:** Please record any reasonable adjustment that has occurred for this assessment. | | | | | | |
| **Instructions to Assessor**  **Work, Health and Safety**: A work health and safety check of the assessment environment is to be conducted prior to the assessment and any hazards addressed appropriately.  **List the time, materials provided and assessment range and conditions on the next page** These sections should be detailed enough for multiple assessors to consistently implement the assessment and include details of location, time restrictions, level of assistance permitted (if any), WHS, environment protocols, etc. The student should have access to techniques, procedures, information, resources and aids which would normally be available in the workplace. Include if open or closed book. Materials to be supplied may include: assessment paper, site plan, text, internet access, etc. | | | | | | |

**Information for Students:** You may have two (2) attempts for this assessment.

* If your **first** attempt is not successful, your teacher will discuss your results with you and will arrange a second attempt.
* If your **second** attempt is not successful, you will be required to re-enrol in this unit.

Only one re-assessment attempt will be granted for each assessment item. A first submission **MUST** be received on or before the due date in order to be elegible for a re-assessment. Late submissions will not be accepted without valid accompanying documentation to explain the reason for the late submission.

**Time Allowed**: 2 Weeks

**Materials Provided:**

* Task Sheet 6

**Assessment Range and Conditions**:

This assessment must:

* Be submitted as a single Microsoft Word (or similar) document with necessary images and screenshots embedded
* **Correct spelling, grammar, punctuation and sentence structure must be used at all times**.

**Assessment Criteria:** To achieve a Satisfactory result, your assessor will be looking for your ability to demonstrate the key skills/tasks/knowledge detailed in the Assessment Task to industry standard.

**Assessment Task**

When testing anything in an IT environment, understanding the methodologies and standards is very important as these elements will define the structure of the testing process – they will often separate the “must-haves” from the “should-haves”.

For this task, you will be researching various methodologies and standards as they apply to website testing and design.

1. **Website Testing Methodologies**
   1. Briefly outline two (2) **website testing methodologies**.

**Methodology 1:** Compatibility

This methodology is used when testing if a website works with mobiles, certain browers, operating systems. While your website might be functional in general, you need to make sure if it is going to work cross platform if the website is meant to be accessible from other locations or devices.

**Methodology 2:** Funtional

Functional testing is something you will be doing constantly when ever you add a new feature, code to a website or make a change. When a navigate link is added to a site you will test to make sure that the link will redirect you to the right location etc.

1. **Accessibility Standards**

* Select two (2) topics from the category list provided below.
* PDF accessibility
* Accessible Flash content
* Colour and contrast (website accessibility for readers with various forms of colour blindness and those with poor vision).
* Access by Screen Readers
* Accessibility for the aging
* Accessible Javascript

1. Research and review the standards and guidelines that apply to your chosen topics
2. In ten (10) lines or less, describe the accessibility considerations for each of your chosen topics

**Topic 1:** PDF accessibility

Searchable text – A scanned document will be inaccessible because the content is considered an image and not readable by most assistive software.

Unicode – Acrobat converts characters on a page to Unicode to read a PDF, if the characters from a file can’t be converted to Unicode Acrobat will most likely fail.

Interactive – Some forms contain fields that a user can fill out on a computer, to be accessible the PDF needs to have interactive form fields.

Security – Some systems prevent users from copying, extracting, adding comments to text, this can cause a PDF to be innaaccessible.

**Topic 2:** Accessibilty for the aging

Vision – Aged readers may have trouble with color perception, contrast sensitivity, near-focus making it harder for them to ready websites.

Motor functions – With reduced dexterity and trouble moving older uses may struggle clicking on small buttons or links.

Hearing – Some users may have trouble hearing certain sounds or music playing in the background of the website.

Cognitive ability – reduced memory, harder to find and follow navigational links or website content like completeing online tasks.

1. **Performance Standards**
2. Select two (2) topics from the category list provided below.
   * Navigation Timing
   * Resource Timing
   * User Timing
   * Performance Timeline
   * Page Visibility
   * Timing control for script-based animations
3. Research and review the standards and guidelines that apply to your chosen topics
4. In ten (10) lines or less, describe the performance considerations for each of your chosen topics

**Topic 1:** Page Visibility

Content – The amount of images on your page, fonts, HTML, CSS all have an impact on your site and how fast each page loads. If theres too much content users may have trouble even loading all the content.

A users perception of how fast a website loads is scewed, a user will assume a website loads faster the quicker they see content even if that page doesn’t fully load or it takes a while to load the rest.

Others things to conside are users locations – this will affect the load time and visibility of a website, network – will also affect the users load time and visibility of the website.

**Topic 2:** Resource Timing

**General Standards**

The World Wide Web Consortium is the primary standards organisation for the web but there are many websites that contain information regarding acceptable practice. In the space provided below, summarise the legislation, regulations and codes of practice for the points listed.

* 1. Codes of Ethics

Often used interchangeably with Code of Conduct, a Code of Ethics indicates an organisations values and commitment to standards. These “Codes” are used to promote ethical and honest conduct for employees while at their place of work.

* 1. Privacy

Peoples personal information is protected by the Privacy ACT 1988, the Information Privacy Act 2014(ACT) regulates how personal information must be handled by public sector agencies in the ACT. Other individual states have their own privacy acts that cover various sectors. More information can be found on Australia gov websites likes <https://www.oaic.gov.au/privacy-law/other-legislation/> and <https://www.oaic.gov.au/privacy-law/other-privacy-jurisdictions>

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* 1. Copyright

Copyright law is set out in the Copyright Act 1968, this is federal legislation that encompases all of Austalia. While created in 1968 this act has been amended regulary. This act is designed to protect material created by persons in Australia and to encourage the creation and sharing of information.

* 1. Intellectual Property

Intellectual Property or IP is designed to protect innovative ideas, these ideas range from phrases to pictures and inventions. While a person might create IP that does not mean they are the legal owner of that IP, for e.g. someone who is employed to create a new type of engine does not own that design, because the were employed for that reason it becomes the IP of the company they were employed under. There are multiple legislations for IP worldwide such as the Patents Act 1990, Patents Regulations 1991, Trade Marks Act 1995, Trade Marks Regulations 1995, Designs Act 2003, Designs Regulations 2004, Plant Breeder’s Rigts Act 1994 and Plant Breeder’s Rights Regulatins 1994. More info can be found here <https://www.ipaustralia.gov.au/about-us/legislation/ip-legislation>.

* 1. Naming Conventions

Naming conventions are general agreed upon schemes for naming different objects, the need for naming objects can vary from Planets to files on a computer. There is no official legislation or regulations covering naming conventions, these schemes are agreed upon in organsiations or governing bodies.

* 1. Documentation Standards

Are created to define the process in which documents should be created and/or maintained. Documentation Standards may describe the layout, format or font used on a document. Document Standards wll vary from company to company and have no set legislations or regulating bodies.

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| **Marking Criteria** | **Evident (✓/🗶)** | **Comments** |
| Two (2) website testing methodologies identified and described |  |  |
| Two (2) accessibility standards researched and described |  |  |
| Two (2) performance standards researched and described |  |  |
| Legislation/regulations/codes of practice relating to codes of ethics summarised |  |  |
| Legislation/regulations/codes of practice relating to privacy summarised |  |  |
| Legislation/regulations/codes of practice relating to copyright summarised |  |  |
| Legislation/regulations/codes of practice relating to intellectual property summarised |  |  |
| Legislation/regulations/codes of practice relating to copyright summarised |  |  |
| Legislation/regulations/codes of practice relating to intellectual property summarised |  |  |
| Legislation/regulations/codes of practice relating to naming conventions summarised |  |  |
| Legislation/regulations/codes of practice relating to documentation standards summarised |  |  |