DIGITAL TECHNOLOGY DTO2013T2
INTERNAL ASSESSMENT ACTIVITY

UNIT STANDARD 29776 (VERSION 2)
Use the main features of an HTML editor to create a website
Level 2, Internal assessment
4 credits

STUDENT INSTRUCTIONS

Overview
To gain Unit Standard 29776 the student must complete and achieve in all parts of the outcome by creating a multipage website using a text editor. Students are required to plan, build using HTML, format using CSS, test and evaluate a website of at least three pages.

Conditions:
- You may do the assessment at any time, but ideally only after you have completed the Website topic.
- The assessment must be entirely your own work.
- There is no time limit for the assessment.
- Attempt all the tasks.
- There is one resubmission opportunity, but no re-assessment available.
- Plagiarism detection software may be used to check this is your own work.

You will need:
- access to a computer with an HTML editor, for example, Brackets and a web browser. If the HTML editor is capable of also editing in WYSWYG mode then you will need to operate in 'code view' to meet the requirements of this standard.

Supervisor requirements
- Supervision is not required for this assessment.
- Upload your assessment to the DTO2013T2 assessment dropbox when you have completed it.

ASSESSMENT CRITERIA

UNIT STANDARD 29776 (VERSION 2)
Use the main features of an HTML editor to create a website

	Outcome		Evidence requirements	Range
1	Use the main features of an HTML editor to create a website. The website includes but is not limited to – three linked pages, two media, two enhancements, hyperlinks.	1.1	User interface of an HTML editor is navigated effectively according to good practice.	Includes but not limited to – shortcuts, screen display options, finding help. includes creating and editing HTML and CSS code with a selection from each of the following categories (evidence of at least 15 foundation level HTML editor skills are required)
		1.2	Main features of a website HTML editor are used to create, format, edit, enhance, save, and share a website, using good practice and in accordance with the specifications of the brief.	*Create* includes – HTML and cascading style sheets (CSS); navigation; hyperlinks; HTML structural elements; HTML attributes and HTML and CSS styles; media and enhancements; metadata; use of correct ‹!Doctype› declaration; and **may include** content map and site map. *Format* includes – container width; alignment and wrapping; borders; text, media and enhancements; use of CSS column width; alignment and wrapping; borders; media and enhancements; use of CSS. *Edit* includes but is not limited to – HTML and CSS code, move, copy, insert, delete, undo/redo, find and replace, data added, metadata, preview. *Enhance* includes but is not limited to two of – tables, lists, graphical hyperlinks. *Save* includes – file management that allows for easy access to content; use of folders, naming of folders, relevant file names. *Share* includes publish and may include but is not limited to sharing for testing prior to publishing.

	Outcome		Evidence requirements	Range
1	Use the main features of an HTML editor to create a website. The website includes but is not limited to – three linked pages, two media, two enhancements, hyperlinks.	**1.3**	The website is tested in a minimum of two browsers to ensure functionality and appearance, and any errors are corrected and documented according to the testing procedures of the brief.	Hyperlinks, media, formatting, layout, accessibility, readability, legibility, functionality, navigation, buttons, displayed messages, error handling, data integrity.
		1.4	The website is evaluated for fitness for purpose in terms of the target audience and specifications of the brief.	

ASSESSMENT ACTIVITY
DIGITAL TECHNOLOGY

PRE-TASK INSTRUCTIONS

Create a folder called 'DTO2013T2' which will contain all your files and folders needed to create your website. Ensure all your files are appropriately named (for example, ***.html or ***.css).

When you are writing and editing your code in the text editor you will be required to demonstrate certain editing skills to meet the standard. Your supervisor will be required to observe each of these skills at least once 'and record their observations of how you demonstrated each skill. There is a checklist with space for the recording of observations' at the end of the assessment task (Appendix A) for your supervisor to complete and sign.

The editing skills you are required to demonstrate are:

- Move
- Copy
- Insert
- Delete
- Undo/redo
- Find and replace
- Data added
- Metadata
- Preview.

TASK

You are required to build a website to meet the needs of the brief and the target audience as outlined below. The steps to follow are:

1. Plan
2. Build (HTML)
3. Format (CSS)
4. Test
5. Evaluate
6. Complete the checklist.

BRIEF AND PURPOSE

An online environmental educational organisation, Eco-EducatioNZ, has asked you to create a single column website to inform their target audience of teenage students about e-waste (electronic waste). [Please note: this is not a real organisation]

ASSESSMENT RESOURCES:

eWaste zipped folder of images and website content. (Ask your teacher for these.)

SPECIFICATIONS

The website needs to:

    a. Explain what e-waste is

    b. Explain why e-waste is a problem

    c. Provide information on how their organisation can be contacted (details below).

> Eco-EducatioNZ
> 162 Windsor Road
> Wellington
> Email: admin@ecoeducationz.org.nz
> Phone: 04 4991 9193

The website must include:
- at least three linked pages (including the home page)
- at least two media For example, text, static and/or moving images, audio, video
- at least two enhancements (must be two of: tables, lists, CSS, graphical hyperlinks)
- a hyperlink to an external website.

The website must:
- work in a minimum of two browsers
- be configured to be suitable for the visually impaired (for example, use of alt tags for images, ‹em› and ‹strong› for emphasis).

Testing plan

The website must be tested against this testing plan. For example: (can you place the For example Testing Table from the attached Testing Plan Example document in this space?)

Note: You will be assessed on your ability to use the main features of the HTML editor in creating the website rather than the e-waste content of the website. However, the content must comply with legislation and be appropriate for teenagers.

1. PLAN THE WEBSITE

Although not assessed, it is recommended that you plan your website before you start creating it. Therefore, although not essential, you are encouraged to include a conceptual design/wireframe.

- Content and images are provided for the three pages of the website.
- Or, you can research to find information about e-waste to create the three pages as outlined in the Brief. Find **images** (at least two) to include in your website ensuring that you adhere to copyright law, and **another website that you can link to via a hyperlink**.

2. BUILD THE WEBSITE

Enter code and text into a text editor to create and format webpages with CSS for your website. You should aim to include all of the following:

Create:

- a navigation bar linking the pages of your website
- a hyperlink to an external website (this could be a graphical hyperlink which would also count as an enhancement)
- all the necessary HTML structural elements (‹body›, ‹main›, ‹section›, ‹article›, ‹header›, ‹footer›, ‹nav›, ‹aside›, ‹div›)
- all the necessary HTML attributes title, language, image (‹img› tag), alternative text (alt), links (href)
- all the necessary HTML/CSS styles (for example font style, lists, tables)
- at least two media (for example images, video, sound, animation)
- at least two enhancements (two from: tables, lists, CSS, graphical hyperlinks and any from dropshadows, borders)
- all the necessary metadata (for example charset="UTF-8", name="author", name="viewport").

3. FORMAT THE WEBSITE (CSS)

Must include:

- the container width
- text alignment and wrapping
- borders
- text media and enhancements
- use of CSS.

4. TEST THE WEBSITE

Your website will need to be tested on two different browsers to ensure everything is working as it should be. Any errors that you find will need to be corrected and documented. Use the testing table provided in the Appendix B.

Accessibility, Readability and Legibility
You should test to see that all the webpages open in two different browsers and ensure it is configured for the visually impaired. All text should be easy to read and simple enough for the reader to understand.

Formatting, Layout and Overall Presentation
You should test to see that the final website looks as you intended it to look.

Validation
By using a website code validator, such as http://validator.w3.org for your html and https://jigsaw.w3.org/css-validator/ for your CSS, check for errors in your code.

Functionality

You should test to check if all the functions of the website are working correctly. The functions that you may be required to test include buttons, hyperlinks, navigation and media.

Testing table example:

Browser names: Name 1 and Name 2			
Chrome and Firefox			
Specific item being tested	**Expected output**	**Actual output**	**Solution (if error detected, how is it handled?)**
Type of item being tested: **Hyperlinks**			
Homepage hyperlink that directs to Wikipedia website page on e-waste.	New tab opens with Wikipedia website page on e-waste.	Wikipedia website page on e-waste opens in same tab as homepage on both browsers.	Add target="_blank" to hyperlink in HTML

5. EVALUATE THE WEBSITE

Write a brief summary to explain why your website meets the needs of the brief and the target audience.

1. My website meets the purpose and the specifications as outlined in the brief because/by …

2. My website meets the needs of the target audience because/by …

6. COMPLETE THE CHECKLIST – APPENDIX B

Ensure that you have read and completed all the instructions given in the task.

Save the DTO2013T2 US29776 Supervisor's Checklist from Appendix B and your testing table from Appendix A into the DTO2013T2 folder and upload your website's root folder as a zipped file in the DTO2013T2 assessment dropbox. 0

APPENDIX A

Testing Plan to be completed in two browsers.

Browser names: Name 1 and Name 2			
Specific item being tested	**Expected output**	**Actual output**	**Solution (if error detected, how is it handled?)**
Type of item being tested: **Hyperlinks**			
Type of item being tested: **Media (Images, Video, Audio)**			
Type of item being tested: **Formatting (Heading heirarchy, font sizes and colours)**			
Type of item being tested: **Layout**			
Accessibility **(can be opened and viewed using different browsers, configured to be viewed by people with visual impairment)**			
Type of item being tested: **Readability**			

Type of item being tested: **Legibility**			
Type of item being tested: **Functionality**			
Type of item being tested: **Navigation**			
Type of item being tested: **Buttons**			
Type of item being tested: **Displayed messages (text display)**			
Type of item being tested: **Data Integrity**			

APPENDIX B

CHECKLIST TO BE COMPLETED BY YOUR SUPERVISOR

INSTRUCTIONS
Please complete this checklist and declaration when the student is writing and editing their code in the text editor. Scan the completed checklist and submit with the assessment to the DTO2013T2 dropbox.

Place **√** in each box as each technique is demonstrated.
Place **X** if the technique has not been demonstrated.

Techniques used	√ or X	Observations describing how the student has demonstrated the skill
User interface: • Shortcuts • Screen display options • Finding help		
Editing: • Move • Copy • Insert • Delete • Undo/redo • Find and replace • Data added • Metadata • Preview		

I have observed

_____ (student name)**,** _____ (student ID)**,**

using the text editor userface and editing their code as described above.

Supervisor's Name: _____

Supervisor's Signature: _____

Date: _____

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