Title	**Develop, test, and evaluate an interactive website for organisational use**		
Level	3	**Credits**	5

Purpose	People credited with this unit standard are able to: develop an interactive website for organisational use; and test and evaluate the website developed.
	This unit standard has been developed primarily for assessment as an option within programmes leading to the New Zealand Certificate in Computing (Intermediate User) (Level 3) [Ref: 2592].

Classification	Computing > Generic Computing

Available grade	Achieved

Guidance Information

1	Recommended skills and knowledge:
	Unit 29775, *Use the main features and functions of a web authoring and design tool to create a website*; or Unit 29776, *Use the main features of an HTML editor to create a website*; or demonstrate equivalent knowledge and skills.

2	Assessment, where applicable, will be conducted in real or realistic practical settings such as workplaces, labs or other simulated environments, or table-top walk through exercises., and be relevant to current and/or emerging practice. The assessor may gather evidence over time from a range of scenarios rather than using one assessment where the learner has to demonstrate all of the required skills.

3	A brief will be supplied to the learner, either as part of the learner's employment (in the case of workplace assessment) or in response to a set task. A *brief* is defined as a clear description of both the desirable outcomes sought and the constraints to be met by the solution. It contains detailed specifications against which the success or otherwise of the website can be evaluated, which must include being suitable for live use and complying with relevant legislation (such as image copyright), and meeting appropriate ethical and moral considerations. The brief will include at least the audience, specifications and a testing plan.

4 Learners are required to create an interactive website for organisational use with embedded media. The website can be created by using a dedicated web-authoring tool or an HTML editor. A basic outline of the text and media content for the website may be provided to the learner. This unit standard does not assess the content of the material used to create the website. Unit 29791, *Capture and prepare digital media for integration into other applications,* or Unit 29773, *Produce digital images for a range of digital media* could be used to prepare media for integration into the website.

5 Definitions
Accessibility means the web pages can be opened and viewed on a variety of browsers and configured to be viewed by people with disabilities such as visual impairment.
A *conceptual design* clearly communicates a proposed outcome that has the potential to address the brief and provide a detailed description of how the outcome would look and function. Conceptual designs can be presented using a variety of techniques.
A *dedicated web-authoring tool* means any application that allows pages to be created using visual editors or web-authoring tools. This does not include word processing, desktop publishing, presentation applications or online web builders.
HTML editor is a computer program for editing HTML and CSS, the markup languages of a webpage. The markup language will have text entered by use of an HTML editor according to the conventions of the selected language and will include the use of HTML structural elements, HTML attributes and HTML and CSS styles. This does not include word processing, desktop publishing, presentation applications or online web builders.
Interactive means the website will respond to basic user interactions using elements such as widgets, hyperlinks, embed code.
Organisation refers to the context the website is designed to operate in (e.g. businesses, clubs, not-for-profit organisations). It does not define or limit the situations in which assessment evidence may be gathered.
Original media refers to media created by the learner or provided by a stakeholder. Editing of the media is not required apart from preparation to allow insertion into the website, such as adjusting resolution, file size, video format.
Presentation means the website produced must show consistent application of the principles of page/screen layout, such as composition of elements upon the page, text hierarchy, consistent typography, balance, harmony, proportion, sequence, contrast repetition, alignment, and proximity.
Principles of information presentation may include but are not limited to – order of presentation of information, clarity, simplicity, readability, consistency and appropriateness for intended audience.
Responsive means the website will adjust depending on the viewport size and resolution of the screen.
Testing refers to the details of how the website is going to be tested for operation to ensure that it meets the specifications of the brief, stakeholder and good practice, including validation and accessibility testing.
Typography may involve selecting typefaces/web fonts, font size, line length, line-spacing (leading), letter-spacing (tracking), adjusting the space within letters pairs (kerning) and font colours.
W3C refers to the World Wide Web Consortium, which is the main international standards organisation for the World Wide Web (WWW or W3).

6   Legislation relevant to this unit standard includes but is not limited to the:
       Copyright Act 1994
       Copyright (New Technologies) Amendment Act 2008
       Health and Safety at Work Act 2015
       Privacy Act 2020
       Unsolicited Electronic Messages Act 2007
       and any subsequent amendments.
       Current legislation and regulations can be accessed at http://legislation.govt.nz.

7   Reference sources for web development include:
       Guidelines for Using Computers - Preventing and managing discomfort, pain and injury - ACC5637. Accident Compensation Corporation - Department of Labour, 2010; available from WorkSafe New Zealand, at https://www.worksafe.govt.nz/topic-and-industry/work-related-health/ergonomics/safely-using-computers-at-work/.
       w3schools.com, available at http://www.w3schools.com/default.asp;
       Web Platform Organisation, available at http://www.webplatform.org/;
       World Wide Web Consortium (W3C), available at https://www.w3.org/.

Outcomes and performance criteria

Outcome 1

Develop an interactive website for organisational use.

Range   multi-page interactive website with a minimum of three linked pages.

Performance criteria

1.1   A plan for the interactive website is produced outlining how the requirements of the given brief will be realised.

         Range   includes but is not limited to – purpose, target audience, constraints, specifications, testing;
                        planning may be oral, written, and/or graphic.

1.2   Conceptual designs are produced in accordance with the specifications of the brief.

         Range   includes but is not limited to – layout, styling, formatting, typography, navigation.

1.3   Content is entered, styled, edited, and formatted in accordance with the requirements of the brief.

         Range   includes – HTML and CSS (latest specifications) as defined by W3C; multipage; layout; semantically correct HTML structure; responsive CSS.

1.4   Media are selected and integrated in accordance with the specifications of the brief.

        Range   at least two media, which may include but are not limited to –
                   static and/or moving images; audio; widgets; use of embed code
                   to display content from another website;
                   includes two original media.

1.5   A file management structure is implemented that allows for ease of access to content.

        Range   includes but is not limited to – use of folders, naming of files and
                   folders in adherence with recognised web standards.

1.6   Consistent application of the principles of website layout and of information presentation are demonstrated in the website developed.

Outcome 2

Test and evaluate the website developed.

Performance criteria

2.1   The website is tested to ensure accessibility and functionality in accordance with the requirements of the plan, and any errors are documented and corrected.

        Range   validation testing.

2.2   The website's accessibility, readability, legibility, and presentation is checked in at least two browsers and on at least two different types of digital devices in accordance with the brief and the plan.

2.3   The website is evaluated to ensure it meets the requirements of the given brief and is modified if required.

Replacement information	This unit standard replaced unit standards 25657 and 25658.

Planned review date	31 December 2026

Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 January 2017	31 December 2024
Review	2	28 April 2022	N/A

Consent and Moderation Requirements (CMR) reference	0099

This CMR can be accessed at http://www.nzqa.govt.nz/framework/search/index.do.

Comments on this unit standard

Please contact Toi Mai Workforce Development Council qualifications@toimai.nz if you wish to suggest changes to the content of this unit standard.