

<b>Title</b>	<b>Investigate, plan, design and create digital outcome solutions to meet the requirements of a specified brief</b>		
<b>Level</b>	<b>3</b>	<b>Credits</b>	<b>5</b>

<b>Purpose</b>	<p>People credited with this unit standard are able to: investigate, plan, and create conceptual designs for a digital outcome to meet the requirements of a specified brief; and create, test and evaluate a digital outcome solution to meet the requirements of a specified brief.</p> <p>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].</p>
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<b>Classification</b>	Computing > Generic Computing
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<b>Available grade</b>	Achieved
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### Guidance Information

- 1 Assessment, where applicable, will be conducted in and for the context of a real or realistic situation and/or setting with conditions that demand performance equivalent to that required in the real-life context, and be relevant to current and/or emerging practice.

For the purposes of this unit standard, the client may be the learner's assessor. The assessment context for this unit standard must be suitable to meet the criteria for level 3 in the NZQF Level Descriptors, which are available by searching for "level descriptors" at [www.nzqa.govt.nz](http://www.nzqa.govt.nz).

- 2 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. The supplied brief must clearly identify the problem and the outcomes required from the solution; include meeting appropriate legal, ethical and moral considerations; and provide for demonstration of intermediate level computing user skills integrated across a range of applications and digital tools.

A basic outline of the text and media content for the digital outcome may be provided to the learner. The brief must contain requirements against which the success or otherwise of the digital outcome solution can be assessed, which must include the finished product being suitable for organisational use and complying with relevant legislation. This unit standard does not assess the content of the material used to create the digital outcome.

- 3 Integrated assessment linked to the following unit standards may be suitable for creating the project context for creating digital outcome solutions:
- Unit 29785, *Use a word processing application to integrate images, spreadsheet and database data into documents.*
  - Unit 29786, *Produce a spreadsheet for organisational use.*
  - Unit 29787, *Produce and use a relational database to provide a solution for organisational use.*
  - Unit 29788, *Develop, test and evaluate an interactive website for organisational use.*
  - Unit 29789, *Use a presentation application to produce an interactive multimedia presentation.*
  - Unit 29791, *Capture and prepare digital media for integration into other applications.*
  - Unit 29792, *Use a desktop publishing application to produce documents.*
- 4 Definitions
- 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, and may include but are not limited to – freehand sketches, diagrams, technical drawings, scale models, computer simulations, written descriptions, details of assets, and functions.
- A digital outcome* refers to what is developed from the conceptual design using client feedback and is reflective of relevant codes of practice, and may be a prototype. A prototype may be a completed outcome ready for use or a functional model of the outcome.
- Good practice* refers to selecting and using the appropriate feature or function to enable the safe and correct use of the chosen digital devices and platforms.
- Intermediate level use* of a range of digital applications refers to digital literacy and competency beyond the foundation level to develop the digital solution. The range of techniques are detailed further in the Level 3 unit standards developed for the use of the relevant range of software applications.
- Client* refers to any group or individual who can affect or is affected by the development and/or implementation of the outcome. For this standard the client should be authentic and may include but is not limited to the assessor, other learners, real clients, family members or other people affected by the design.
- Testing* refers to the details of how the product is going to be tested to ensure that it meets the specifications of the brief, client and good practice, including features, functionality, presentation of expected output, data validation and accessibility testing.
- 5 Legislation relevant to this unit standard may include but is not limited to the:
- Copyright Act 1994
  - Copyright (New Technologies) Amendment Act 2008
  - Harmful Digital Communications Act 2015
  - 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>.

## 6 Reference

*ACC5637 Guidelines for Using Computers - Preventing and managing discomfort, pain and injury.* 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/>.

## Outcomes and performance criteria

### Outcome 1

Investigate, plan, and create conceptual designs for a digital outcome to meet the requirements of a specified brief.

**Range** digital outcome created must be an integrated solution using intermediate techniques with at least three different applications; be appropriate for the target audience defined by the client and suitable for organisational use; and be of sufficient complexity to provide scope for the assessment evidence.

### Performance criteria

1.1 A plan is developed and revised as needed to specify how the requirements of the brief will be realised and showing changes and procedures to resolve issues arising during the project.

**Range** plan includes – milestones, resources, testing procedures, timings for client engagement.

1.2 Existing ideas and potential solutions for the brief are investigated.

1.3 Concepts based upon investigation, client feedback and research are generated.

**Range** may include but is not limited to – sketches, storybooks, entity relationship diagrams, visual diaries, blogs, concept maps, annotations, wireframes, models, mock-ups.

1.4 Conceptual designs are selected and developed in accordance with the specifications of the brief and client input.

1.5 Conceptual designs are evaluated against the brief and recommended solutions presented to client for feedback.

**Range** includes – strengths, limitations, possible improvements, capacity for further development.

### Outcome 2

Create, test and evaluate a digital outcome solution to meet the requirements of a specified brief.

**Performance criteria**

- 2.1 Existing and emerging techniques and digital tools that may be used in development of the solution are investigated and evaluated.
- 2.2 Appropriate techniques and digital tools are applied to develop the solution.
- Range includes but is not limited to – intermediate level use of at least three different digital applications to develop the digital solution.
- 2.3 Testing and trialling procedures and client feedback are used to inform the development of the solution.
- 2.4 Final developed digital outcome solution is created and evaluated against the brief and client feedback.
- Range includes – strengths, limitations, possible improvements, capacity for further development, compliance with legal requirements and good practice.

<b>Planned review date</b>	31 December 2026
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**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

<b>Consent and Moderation Requirements (CMR) reference</b>	0099
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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](mailto:qualifications@toimai.nz) if you wish to suggest changes to the content of this unit standard.