**Field      Computing and Information Technology**

**Review of *Computing* unit standards**

| Subfield | Domain | ID |
|---|---|---|
| Computing | Computer Support | **6836, 6852**, 26227, 29784, **29817** |
| | Generic Computing | 2792, **2796, 5943**, 5946, **5951, 5955, 6745, 7910**, 18734, 18743, 18758, 25659, **25782, 26226, 26228**, 29769-29782, **29783** |
| | Software Development – Programming | **6761**, 18739, 18740 |

NZQA National Qualifications Services (NQS) and Toi Mai Workforce Development Council have completed the review of the 38 unit standards listed above, with those proposed to expire in **bold**.

**Date new versions published                    May 2022**

**Planned review date                    December 2026**

**Summary**

The review was undertaken in line with the 2021 scheduled review.

Current and future demand for computing unit standards was explored, and it was noted that there was no or low usage reported for most of the standards proposed to expire.  The suite of standards transitioned from NZQA National Qualifications Services to the Toi Mai Workforce Development Council ([WDC]) in October 2021.

From November 2020 to July 2021, a panel with the necessary IT and computing skills and experience with target learners, programme development and unit standards assessment met to review the standards.  The consultation process of the project was further informed by pre-review stakeholder feedback, and input from the e-network during the review process.

Key stakeholders and organisations with consent to assess had the opportunity to review the standards and offer feedback.  The proposed standards were available to the stakeholder network for consultation and endorsement August - September 2021.  All feedback was considered and actioned where appropriate.

**Main changes**

- Guidance information, outcomes, and performance criteria were updated to reflect terminology used in the current template, to better align the standards with the reviewed qualifications, updated legislation and current practice, and to ensure they remain relevant and current.
- Three standards had titles changed to better align with and reflect the intent of the reviewed qualifications and current practice.
- Four standards had credits increased to better reflect complexity of current knowledge and skill requirements and practice, and to align with the reviewed qualifications.
- Three new standards were developed to better reflect the graduate outcomes of the new Level 2 qualification and current practice.
- 14 standards were designated expiring without replacement (Category D review), as they were no longer relevant or fit for purpose, or they duplicated content in new or current standards.
- Standard 29783 was designated expiring with a replacement (Category C review) to better reflect the graduate outcomes of the new Level 2 qualification and current practice.

**Category C and D unit standards will expire at the end of December 2024**

**The last date for assessment of superseded versions of Category B unit standards is December 2024**

**Impact on existing organisations with consent to assess**

| Current consent for | | | Consent extended to | | |
|---|---|---|---|---|---|
| Nature of consent | Classification or ID | Level | Nature of consent | Classification or ID | Level |
| Standard | 29783 | 2 | Standard | 32975 | 2 |

**Impact on Consent and Moderation Requirements (CMR)**
All Category B standards were moved to CMR 0099 from CMR 0113 and CMR 226.

**Detailed list of unit standards – classification, title, level, and credits**

All changes are in **bold**.

| Key to review category | |
|---|---|
| **A** | Dates changed, but no other changes are made - the new version of the standard carries the same ID and a new version number |
| **B** | Changes made, but the overall outcome remains the same - the new version of the standard carries the same ID and a new version number |
| **C** | Major changes that necessitate the registration of a replacement standard with a new ID |
| **D** | Standard will expire and not be replaced |

Computing and Information Technology > Computing > Computer Support

| ID | Title | Level | Credit | Review Category |
|---|---|---|---|---|
| 6836 | Apply the principles of resolving problems for single-user and multi-user computer operating systems | 5 | 5 | D |
| 6852 | Describe data communications | 4 | 4 | D |
| 26227 | Describe and create a local area network | 5 | 7 | D |
| 29784 | Troubleshoot, fix and escalate simple or routine computing and connectivity problems<br>**Troubleshoot, fix and escalate simple or routine hardware, software and connectivity problems** | 2 | 2 | B |
| 29817 | Repair a personal computer and peripherals to module level | 5 | 10 | D |

Computing and Information Technology > Computing > Generic Computing

| ID | Title | Level | Credit | Review Category |
|---|---|---|---|---|
| 2792 | Produce simple desktop published documents using templates | 1 | 2 | B |
| 2796 | Demonstrate knowledge of the principles of electronic logic gates in computing | 4 | 9 | D |
| 5943 | Investigate use of digital applications for leisure | 1 | 2 | D |
| 5946 | Use computer technology to create and deliver a presentation from given content | 1 | 3 | B |
| 5951 | Describe the concepts of information systems deployment | 3 | 3 | D |
| 5955 | Demonstrate an understanding of documentation for computer applications | 3 | 5 | D |
| 6745 | Demonstrate and apply knowledge of single-user and multi-user computer operating systems | 4 | 5 | D |

| ID | Title | Level | Credit | Review Category |
|---|---|---|---|---|
| 7910 | Demonstrate knowledge of computer data types and data structures | 5 | 7 | D |
| 18734 | Create a web page using a template | 1 | 2 | B |
| 18743 | Produce a spreadsheet from instructions using supplied data | 1 | 2 | B |
| 18758 | Find information using the Internet | 1 | 2 | B |
| 25659 | Create a web page using a mark-up language with a text editor | 1 | 2 | B |
| 25782 | Investigate the use of Information and Communications Technologies in an organisation | 3 | 6 | D |
| 26226 | Demonstrate knowledge of computer database management systems | 4 | 3 | D |
| 26228 | Evaluate and recommend with justification the suitability of computer applications against user requirements | 4 | 4 | D |
| 29769 | Use the main features and functions of a word processing application for a purpose | 2 | 3 **4** | B |
| 29770 | Use the main features and functions of a spreadsheet application for a purpose | 2 | 3 **4** | B |
| 29771 | Use the main features and functions of a presentation application for a purpose | 2 | 2 **3** | B |
| 29772 | Manage files and folders using digital devices | 2 | 2 | B |
| 29773 | Produce digital images for a range of digital media | 2 | 3 | B |
| 29774 | Use the main features and functions of a desktop publishing application to create documents for a purpose | 2 | 3 **4** | B |
| 29775 | Use the main features and functions of a web authoring and design tool to create a website | 2 | 3 | B |
| 29776 | Use the main features of an HTML editor to create a website | 2 | 4 | B |
| 29777 | Use the main features and functions of a database application to create and test a database | 2 | 3 | B |
| 29778 | Use the main features and functions of a schematic diagram application to create diagrams | 2 | 2 | B |
| 29779 | Create and test a software-controlled device built from components **Create, assemble, and test a microprocessor-controlled device built from components** | 2 | 3 | B |
| 29780 | Configure, manage and use contemporary and emerging digital devices | 2 | 3 | B |
| 29781 | Use the internet and common digital devices and software to gather information and connect with other users and devices **Use the Internet and common digital devices and software to gather information and connect with other users and devices** | 2 | 7 | B |
| 29782 | Demonstrate knowledge of computing hardware, software and terminology to select digital tools for specified purposes | 2 | 5 | B |
| 29783 | Implement basic security when using digital devices and software | 2 | 3 | C |
| **32975** | **Use digital tools securely, safely, ethically and legally** | **2** | **5** | **New** |

| ID | Title | Level | Credit | Review Category |
|---|---|---|---|---|
| **32976** | **Use problem solving techniques and critical thinking to make informed decisions about digital solutions** | **2** | **5** | **New** |
| **32977** | **Apply self-management skills to enhance own learning in a digital context** | **2** | **3** | **New** |

Computing and Information Technology > Computing > Software Development - Programming

| ID | Title | Level | Credit | Review Category |
|---|---|---|---|---|
| 6761 | Demonstrate an understanding of the principles of computer programming | 5 | 7 | D |
| 18739 | Create and use simple command sequences in a procedural computer language | 1 | 2 | B |
| 18740 | Create a simple computer program to meet a set brief | 2 | 3 | B |