

<b>Title</b>	<b>Create and use a computer database to solve a problem</b>		
<b>Level</b>	<b>2</b>	<b>Credits</b>	<b>3</b>

<b>Purpose</b>	People credited with this unit standard are able to plan, create and use a computer database to solve a problem, using a supplied brief.
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<b>Classification</b>	Computing > Generic Computing
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<b>Available grade</b>	Achieved
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### Explanatory notes

- 1 The supplied brief must clearly identify the problem and the outcomes required from the solution. The brief must contain requirements against which the success or otherwise of the database can be evaluated.
- 2 A *plan* outlines how the requirements of the brief will be realised. For this unit standard, the plan may be informal, and it may be more appropriate to produce evidence of it during task completion rather than prior to starting the task or project. Evidence of planning may be oral, written, and/or graphic.
- 3 Definition  
*Data type* is the type of data stored in a field. Data types at this level must include text and number fields.
- 4 Legislation relevant to this unit standard includes but is not limited to the:  
Copyright Act 1994:  
Copyright (New Technologies) Amendment Act 2008:  
and any subsequent amendments.
- 5 An assessment resource to support computing unit standards (levels 1 to 4) can be found on the NZQA website at [www.nzqa.govt.nz/asm](http://www.nzqa.govt.nz/asm).  
A specific resource and assessment task for assessing against unit standard 2786 and 'The Computing Process - a clarification document' can be found on the NZQA website.

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### Outcomes and evidence requirements

#### Outcome 1

Plan a computer database to solve a problem using a supplied brief.

**Evidence requirements**

- 1.1 A database model is selected to meet the requirements of the brief.
- Range may include but is not limited to – flatfile, hierarchical, relational, network, or a combination of models.
- 1.2 The plan identifies the purpose, specifications and/or features required for the database in accordance with the brief.

**Outcome 2**

Create a computer database to solve a problem using a supplied brief.

**Evidence requirements**

- 2.1 Database fields are created and properties managed according to the database model and to meet the specifications of the plan.
- Range field properties include but are not limited to – size, data type and format.
- 2.2 Test records are created and copies are checked against the properties of the database fields.
- Range accuracy, readability, presentation, data integrity.

**Outcome 3**

Use the computer database to provide a solution to the problem.

**Evidence requirements**

- 3.1 Database records are managed to provide the solution to the problem and meet the requirements of the brief.
- Range new records added, records deleted, record fields updated.
- 3.2 Data integrity practices are demonstrated in terms of comparison with original information sources in order to ensure the solution to the problem has been met.
- 3.3 Database records are sorted to provide the solution to the problem and meet the requirements of the brief.
- Range includes but is not limited to – alphabetically, numerically.
- 3.4 Queries are applied to database in order to find data occurrences as required by the brief.

<b>Planned review date</b>	31 December 2016
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#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	30 September 1994	31 December 2013
Review	2	24 September 1997	31 December 2013
Revision	3	28 July 1998	31 December 2013
Review	4	30 July 2002	31 December 2013
Revision	5	16 July 2004	31 December 2013
Review	6	22 May 2009	31 December 2015
Rollover and Revision	7	19 September 2013	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0226
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This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### Please note

Providers must be granted consent to assess against standards (accredited) by NZQA, before they can report credits from assessment against unit standards or deliver courses of study leading to that assessment.

Industry Training Organisations must be granted consent to assess against standards by NZQA before they can register credits from assessment against unit standards.

Providers and Industry Training Organisations, which have been granted consent and which are assessing against unit standards must engage with the moderation system that applies to those standards.

Requirements for consent to assess and an outline of the moderation system that applies to this standard are outlined in the Consent and Moderation Requirements (CMR). The CMR also includes useful information about special requirements for organisations wishing to develop education and training programmes, such as minimum qualifications for tutors and assessors, and special resource requirements.

#### Comments on this unit standard

Please contact NZQA National Qualifications Services [nqs@nzqa.govt.nz](mailto:nqs@nzqa.govt.nz) if you wish to suggest changes to the content of this unit standard.