

<b>Title</b>	<b>Demonstrate knowledge of job costing in mechanical engineering</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>2</b>

<b>Purpose</b>	People credited with this unit standard are able to: demonstrate knowledge of the Consumer Guarantees Act 1993, and of factors influencing job costing; and prepare an estimate for a mechanical engineering job.
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<b>Classification</b>	Mechanical Engineering > Engineering Core Skills
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<b>Available grade</b>	Achieved
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### Explanatory notes

- 1 Reference  
Consumer Guarantees Act 1993.
- 2 Definitions  
An *entity* – may include but is not limited to: an entire organisation; a part of an organisation such as a cost-centre, department, or branch; a small-to-medium enterprise (SME).  
*Job costing guidelines* – guidelines for determining or calculating costs for each job to ensure the pricing covers actual costs and provides a profit. Costs may include but is not limited to: labour, material, consumables, utilities such as power, water, and communications, machine and equipment, inspection, transportation, hire, outsourcing, rent.
- 3 Assessment Information  
Candidates must be assessed against this unit standard in their workplace using naturally occurring evidence, or in a realistic simulation of such a context. Competence must be demonstrated within timeframes expected in a commercial environment.

### Outcomes and evidence requirements

#### Outcome 1

Demonstrate knowledge of the Consumer Guarantees Act 1993.

**Evidence requirements**

- 1.1 Legal responsibilities of relevance to a tradesperson under the Consumer Guarantees Act 1993 are outlined.

Range supply of goods may include – title, quality, fitness for purpose, compliance with description, price;  
supply of services may include – care and skill, fitness for purpose, time of completion, price.  
Evidence of five responsibilities is required.

**Outcome 2**

Demonstrate knowledge of factors influencing job costing.

**Evidence requirements**

- 2.1 Cost factors involved in the running of a mechanical workshop are explained with indications of typical costs.

Range time, materials, consumables, overheads, profits, interest.

- 2.2 Typical workshop overheads are identified in accordance with the entity's job costing guidelines.

- 2.3 Sources of income for a workshop are identified in accordance with the entity's job costing guidelines.

- 2.4 The difference between an estimate and a quotation is explained in terms of their legal status.

**Outcome 3**

Prepare an estimate for a mechanical engineering job.

Range estimate for making a component or assembly to a given specification, or for performing a service such as a repair or overhaul in accordance with the entity's job costing guidelines.

**Evidence requirements**

- 3.1 Estimate itemises required materials and consumables.

- 3.2 Estimate includes labour costs.

- 3.3 Estimate includes additional expenses such as hireage or transport.

- 3.4 Estimate includes allowances for overheads, and profit.

- 3.5 Estimate includes total and Goods and Service Tax.

- 3.6 Estimate is documented, either manually or on a spreadsheet.

**This unit standard is expiring. Assessment against the standard must take place by the last date for assessment set out below.**

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	20 June 2006	31 December 2016
Republished	1	7 September 2006	31 December 2016
Review	2	17 November 2011	31 December 2022
Review	3	17 August 2017	31 December 2022

<b>Consent and Moderation Requirements (CMR) reference</b>	0013
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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.