

## **FIELD                    ENGINEERING AND TECHNOLOGY**

### ***Review of Engineering Machining and Toolmaking and Maintenance and Diagnostics in Mechanical Engineering qualifications***

**National Certificate in Engineering Machining and Toolmaking (Level 4) [Ref: 0123]  
National Certificate in Maintenance and Diagnostics in Mechanical Engineering (Level 4) [Ref: 0125]**

Competenz has completed the review of the qualifications listed above.

#### **Replacement qualification**

National Certificate in Mechanical Engineering (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, and Toolmaking [Ref: 1262]

**Date new qualification published**

**November 2006**

The next qualification review is planned to take place during 2011.

#### **Summary of review and consultation process**

Review of the National Certificate in Maintenance and Diagnostics in Mechanical Engineering (Level 4) [Ref: 0125] began in 2003, when it became clear that the qualification no longer met the requirements of industry. Whilst the qualification did address the needs of the larger enterprises, it had become difficult for apprentices in the more traditional engineering workshops to complete all the required standards. Administration of course deliveries and assessment had become unnecessarily complex due to partial assessments against many standards by providers, with final assessments in the workplace. Furthermore, pre-apprentice training delivered by some providers did not align well with the standards required by the national certificate.

As the National Certificate in Engineering Machining and Toolmaking (Level 4) [Ref: 0123] shared many of the same problems as well as having overlapping sets of foundation skills, it was decided to include it in the review, even though it was not due to be reviewed until 2007. A common qualification with five strands was identified as meeting the current needs of industry. A range of unit standards were written to underpin off-job learning and allow design of a more flexible and user friendly qualification structure and delivery packages. Many standards had to be reviewed at the same time, as they had passed their planned review date.

Industry was widely consulted by means of road shows and meetings with various industry advisory groups, the Engineering, Printing and Manufacturing Union, providers, apprentice coordinators, assessors, moderators, and the armed forces. The draft qualification was endorsed by industry on 9 May 2006.

## Main changes resulting from the review

The National Certificate in Engineering Machining and Toolmaking (Level 4) [Ref: 0123] and the National Certificate in Maintenance and Diagnostics in Mechanical Engineering (Level 4) [Ref: 0125] have been replaced by the single new qualification, the National Certificate in Mechanical Engineering (Level 4) with strands in Fitting and Machining, General Engineering, Machining, Maintenance Engineering, and Toolmaking [Ref: 1262].

## Summary of differences between the qualifications

- Title of new qualification changed to better reflect current nature of the industry.
- Five strands introduced to cater for current industry requirements and occupations.
- Structure changed to core compulsory (116 credits), strand compulsory, and strand elective components.
- Overall credit values range from 270 to 300 credits, depending on the strand.
- Common skills of the two former qualifications were updated and combined into a compulsory core section to provide a common set of foundation skills.
- Minimum number of level 4 credits required to gain the qualification was raised to 55.
- New standards reflect current industry requirements and facilitate better delivery and assessment.
- Some elective standards are now compulsory and vice versa.
- New qualification includes transitions for standards that replace earlier standards.
- Elective domains and standards not related to mechanical engineering have been removed.

## Transition

All new trainees or apprentices from 2007 will be enrolled in the new qualification.

People currently working towards the National Certificate in Maintenance and Diagnostics in Mechanical Engineering (Level 4) [Ref: 0125] or the National Certificate in Engineering Machining and Toolmaking (Level 4) [Ref: 0123] are encouraged to complete these qualifications by 2012. The last date for award will be 31 December 2012. Existing courses will be progressively phased out from 2007. Provision will be made for final Year 2 and 3 courses in 2008 and 2009 respectively, if needed, for people who may have failed to complete earlier.

Whilst these provision should cater for most situations, the following exemptions are available for those who need to transition to the new qualification. The table includes exemptions arising from earlier replacements of unit standards. Note that many of the standards in the earlier qualifications are also contained in the replacement qualification, either as listed or as elective standards.

Credit for	Exempt from
2388	22913 and 22914
2389	21909
2405	12 credits at Level 4 from domain of Maintenance and Diagnostics in Mechanical Engineering
2405	19873
2431	2433
2434	2430 and 2433 and 21910

<b>Credit for</b>	<b>Exempt from</b>
2670	21907
2711	22910
2824	21911 and 21912
3241	2 credits at Level 2 from domain of Mechanical Installation
3242	1 credit at Level 2 from domain of Mechanical Installation
3243	6 credits at Level 3 from domain of Mechanical Installation
4432 and 4434	21908
4795	20917
4796	20799
4798	4797
4810	12 credits at Level 2 from domain of Engineering Machining and Toolmaking
4811	12 credits at Level 3 from domain of Engineering Machining and Toolmaking
5223 and 5226 and 5251	21905
5228 and 5226 and 5251	21905
17344	20612
17345	20611

These exemptions will be available up to 31 December 2011.

Competenz will publicise these arrangements in the trade press and the Competenz website <http://www.competenz.org.nz/>, and by direct communication with apprentices and their employers.

Industry will continue to recognise the former qualifications, and there is no requirement for qualified trades people to 'upgrade' to the new qualification.

It is not intended that anyone be disadvantaged by this review, and the above arrangements have been designed for a smooth transition. However, anyone who feels they have been disadvantaged may appeal to Competenz at the address below.

Competenz  
PO Box 62 561  
CENTRAL PARK  
Auckland

Telephone 0800 275 455  
Email [qualifications@competenz.org.nz](mailto:qualifications@competenz.org.nz)