Field Manufacturing

Review of Competitive Manufacturing unit standards

| Subfield | Domain | ID |
|----------------------|---------------------------|----------------------------|
| Manufacturing Skills | Competitive Manufacturing | 18935, 21501- 21516, 21522 |
| | | |

Competenz has completed the review of the unit standards listed above.

Date new versions published

December 2015

Planned review date

December 2020

Summary

The review was carried out following the review and endorsement of the Australian standards in April 2012. The New Zealand industry took part in the review of the Australian standards in 2011 and early 2012. New standards relevant to the industry in New Zealand have been added as part of this review. These were identified and developed in the joint review in 2011 of the Australian standards.

The New Zealand review of standards was superseded by the Targeted Review of Qualifications review of the *Competitive Manufacturing* qualifications through 2013 and 2014. The qualification review has confirmed the Australian standards are fit for purpose and will be used in the development of programmes toward the new Competitive Systems and Practices qualifications in New Zealand.

The New Zealand industry has adopted the new title for the qualifications and standards, to continue the clear Trans-Tasman relationship between these standards and qualifications and their Australian counterparts.

These units will be registered under the Competitive Systems and Practices domain.

Main changes

- Unit standards had credit changes to reflect the increased time taken for learners to achieve the competency.
- Unit standards had the level raised to reflect the breadth of knowledge required.
- CMR linked to these standards has been changed to CMR 0013 as this meets requirements and provides consistency across the *Manufacturing Skills* subfield.

Category D unit standards will expire at the end of December 2018

Impact on existing organisations with consent to assess

| Current consent for | | | Consent extended to | | | |
|---------------------|----------------------|-------|---------------------|----------------------|-------|--|
| Nature of | Classification or ID | Level | Nature of | Classification or ID | Level | |
| consent | | | consent | | | |
| Subfield | Manufacturing Skills | 2 | Standards | 21501, 21504 -21506, | 3 | |
| | | | | 21511, 21512 | | |
| Domain | Competitive | 4+ | Domain | Competitive systems | Same | |
| | Manufacturing | | | and practices | | |

Detailed list of unit standards - classification, title, level, and credits

All changes are in **bold**.

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

Manufacturing > Manufacturing Skills > Competitive Manufacturing Manufacturing > Manufacturing Skills > **Competitive Systems and Practices**

| ID | Title | Level | Credit | Review Category |
|-------|--|--------|--------|--------------------|
| 18935 | Explain principles of TPM used in a competitive manufacturing organisation Explain principles TPM applied in an organisation using competitive systems and practices | 3 | 10 | В |
| 21501 | Apply competitive manufacturing practices in a competitive manufacturing organisation Apply competitive systems practices in an organisation using competitive systems and practices | 2 3 | 5 | В |
| 21502 | Sustain process improvements in a competitive manufacturing organisation Sustain process improvements in an organisation using competitive systems and practices | 3 | 3 5 | В |
| 21503 | Manage the impact of change on own work in a competitive manufacturing organisation Manage the impact of change on own work in an organisation using competitive systems and practices | 3 | 3 5 | В |
| 21504 | Apply quick changeover procedures in a competitive manufacturing organisation Apply quick changeover procedures in an organisation using competitive systems and practices | 2 3 | 5 | В |

| ID | Title | Level | Credit | Review Category |
|-------|--|-------|--------|--------------------|
| 21505 | Apply Just in Time (JIT) procedures in a | 2 | 5 | В |
| | competitive manufacturing organisation | | | |
| | Apply Just in Time (JIT) procedures in an | 3 | | |
| | organisation using competitive systems and | | | |
| 04500 | practices | 0 | _ | D |
| 21506 | Apply cost factors to work practices in a | 2 | 5 | В |
| | competitive manufacturing organisation Apply cost factors to work practices in an | 3 | | |
| | organisation using competitive systems and | 3 | | |
| | practices | | | |
| 21507 | Interpret product costs in a competitive | 3 | 5 | В |
| | manufacturing organisation | | | |
| | Interpret product costs in an organisation using | | | |
| | competitive systems and practices | | | |
| 21508 | Apply 5S procedures in a competitive | 3 | 5 | В |
| | manufacturing organisation | | | |
| | Apply 5S procedures in an organisation using | | | |
| | competitive systems and practices | | | |
| 21509 | Monitor process capability using three or six sigma | 3 | 10 | В |
| | in a competitive manufacturing organisation | | | |
| | Monitor process capability using three or six | | | |
| | sigma in an organisation using competitive systems and practices | | | |
| 21510 | Complete quality control tests and record results in | 3 | 5 | В |
| 21310 | a competitive manufacturing organisation | 5 | 5 | Б |
| | Complete quality control tests and record | | | |
| | results in an organisation using competitive | | | |
| | systems and practices | | | |
| 21511 | Use planning software systems in a competitive | 2 | 3 | В |
| | manufacturing organisation | | | |
| | Use planning software systems in an | 3 | | |
| | organisation using competitive systems and | | | |
| | practices | - | | |
| 21512 | Use System Control and Data Acquisition (SCADA) | 2 | 3 | В |
| | systems in a competitive manufacturing | | | |
| | organisation | 3 | | |
| | Use System Control and Data Acquisition (SCADA) systems in an organisation using | 3 | | |
| | competitive systems and practices | | | |
| 21513 | Use sustainable energy practices in a competitive | 3 | 5 | D |
| 21010 | manufacturing organisation | Ŭ | Ŭ | D |
| 21514 | Use sustainable environmental practices in a | 3 | 5 | D |
| | competitive manufacturing organisation | | | |
| 21515 | Undertake root cause analysis in a competitive | 3 | 5 | В |
| | manufacturing organisation | | | |
| | Undertake root cause analysis in an | | | |
| | organisation using competitive systems and | | | |
| | practices | | | |

| ID | Title | Level | Credit | Review Category |
|-------|---|-------|--------|--------------------|
| 21516 | Contribute to a proactive maintenance strategy in a competitive manufacturing organisation Contribute to a proactive maintenance strategy in an organisation using competitive systems and practices | 3 | 5 | В |
| 21522 | Analyse manual handling processes in a competitive manufacturing organisation Analyse manual handling processes in an organisation using competitive systems and practices | 3 | 5 | В |
| 29312 | Make improvements using standardised work practices in an organisation using competitive systems and practices | 3 | 5 | New |
| 29313 | Work within a constrained process in an organisation using competitive systems and practices | 3 | 5 | New |
| 29314 | Organise products into groups in an organisation using competitive systems and practices | 3 | 5 | New |