

**FIELD                    PLANNING AND CONSTRUCTION****Review of *Roofing* unit standards 10809-10815 and 21413**

| <b>Subfield</b>                      | <b>Domain</b> | <b>Id</b>          |
|--------------------------------------|---------------|--------------------|
| Plumbing, Gasfitting and Drainlaying | Roofing       | 10809-10815, 21413 |

The Plumbing, Gasfitting and Drainlaying ITO Ltd has completed the review of the unit standards listed above.

**Date new versions published**

**January 2009**

**Planned review date**

**December 2013**

**Summary of review and consultation process**

The standards listed above have been reviewed before their planned review date to align with a current qualification review and the development of new unit standards.

Part of the qualification review involved considering the level, credits, and domain of all unit standards within the National Certificate in Roofing (Installer) with strands in Concrete Roof Tiling; Metal Roofing and Cladding; Metal Roof Tiling; Membrane Roofing; Liquid Membrane Roofing; Torch on Membrane Roofing; and Shingle Roofing; and with optional strands in Translucent Roofing; and Foreperson [Ref: 0375]. As a result, credits in some of these standards have increased to better reflect the time spent learning, the time taken to practise the required outcomes so that performance is repeatable and to the required standard, the time taken to gather and provide evidence for assessment purposes, and the time taken for assessment to take place for all the outcomes in the specified contexts.

Thirty-one new standards were developed to provide companion theory unit standards for those already registered practical standards, to reflect the stages in skill development leading up to independent installation at Level 4, and to make explicit skills and knowledge that were previously only implied.

The consultation process was undertaken by the Roofing Advisory Board, whose representatives covered the different specialist strands in the reviewed qualification. The standards were developed and edited in approximate alignment with the resource material that had been recently reviewed by the same group. A series of structured meetings and teleconferences were held over a time period of about a year to get feedback about the content accuracy, scope and relevance. The standards were then progressively checked and refined as a result of the feedback sessions.

In addition, as the result of the reclassification of other standards from the Concrete Roof Tiling domain to the Roofing domain in August 2008 the Concrete Roof Tiling domain was left empty. As indicated in the review report for those standards, which can be found under the Review Summaries (<http://www.nzqa.govt.nz/framework/updates/summaries.do>) on the NZQA website, the domain has been designated lapsed.

## Main changes resulting from the review

- Titles for unit standards 10809-10812, 10814 and 10815 were changed.
- Credits for unit standards 10810-10812, 10814 and 10815 were increased.
- Thirty-one new standards were developed.

## Impact on existing provider accreditations

None.

## Impact on Accreditation and Moderation Action Plan (AMAP)

None.

## Impact on existing qualifications

The qualification that contains the reviewed standards is in the table below.

|                                |  |
|--------------------------------|--|
| <b>Affected</b>                | The qualification lists a reviewed classification (domain or subfield) in an elective set<br>The qualification lists a standard that has changes to level or credits<br>The qualification lists a C or D category standard |
| <b>Not materially affected</b> | The qualification lists a standard that has a new title<br>The qualification lists a standard that has a new classification  |

The following Plumbing, Gasfitting and Drainlaying ITO Ltd qualification is affected by the outcome of this review and will be reviewed in 2009. The standards in bold have generated the *Affected* status.

| Qualification title  | Standard in the qualification           |
|--|---|
| National Certificate in Roofing (Installer) with strands in Concrete Roof Tiling; Metal Roofing and Cladding; Metal Roof Tiling; Membrane Roofing; Liquid Membrane Roofing; Torch on Membrane Roofing; and Shingle Roofing; and with optional strands in Translucent Roofing; and Foreperson [Ref: 0375] | 10809, <b>10810-10812, 10814, 10815</b> |

## Review Categories and changes to classification, title, level and credits

All changes are in **bold**.

|                               |   |
|-------------------------------|---|
| <b>Key to review category</b> |   |
| <b>A</b>                      | Dates changed, but no other changes are made - the new version of the standard carries the same Id and a new version number           |
| <b>B</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 |
| <b>C</b>                      | Major changes that necessitate the registration of a replacement standard with a new Id   |
| <b>D</b>                      | Standard will expire and not be replaced  |

Subfield Plumbing, Gasfitting and Drainlaying  
Domain Roofing

| Id    | Title   | Level | Credit          | Review Category |
|-------|---|-------|-----------------|-----------------|
| 10809 | Install membrane roof<br><b>Install roof membrane</b>                     | 4     | 35              | B               |
| 10810 | Install 'torch on' membrane roof<br><b>Install torch on roof membrane</b> | 4     | 25<br><b>35</b> | B               |

| <b>Id</b>    | <b>Title</b>  | <b>Level</b> | <b>Credit</b>   | <b>Review Category</b> |
|--------------|---|--------------|-----------------|------------------------|
| 10811        | Install liquid membrane roof<br><b>Apply liquid roof membrane</b>                                   | 4            | 25<br><b>35</b> | B                      |
| 10812        | Install metal tile roof<br><b>Install metal roof tiles</b>  | 4            | 30<br><b>35</b> | B                      |
| 10813        | Install translucent roof  | 4            | 10              | B                      |
| 10814        | Install shingle roof<br><b>Install roof shingles</b>  | 4            | 30<br><b>35</b> | B                      |
| 10815        | Install profiled metal roofing and cladding<br><b>Install profiled metal roof and wall cladding</b> | 4            | 15<br><b>30</b> | B                      |
| 21413        | Demonstrate knowledge of roofing hand and power tools   | 2            | 5               | B                      |
| <b>25270</b> | <b>Describe heat, moisture, air-flow, corrosion, and wind loadings relative to roof structures</b>  | <b>4</b>     | <b>10</b>       | <b>New</b>             |
| <b>25271</b> | <b>Perform calculations and develop ordering lists for metal roof and wall cladding</b>             | <b>3</b>     | <b>4</b>        | <b>New</b>             |
| <b>25272</b> | <b>Describe rainwater handling systems and discharge factors on roofs</b>                           | <b>3</b>     | <b>4</b>        | <b>New</b>             |
| <b>25273</b> | <b>Interpret roofing plans and specifications and perform simple calculations</b>                   | <b>2</b>     | <b>4</b>        | <b>New</b>             |
| <b>25274</b> | <b>Demonstrate knowledge of concrete roof tile systems</b>  | <b>2</b>     | <b>5</b>        | <b>New</b>             |
| <b>25275</b> | <b>Describe preparation and installation for concrete roof tiles</b>                                | <b>3</b>     | <b>5</b>        | <b>New</b>             |
| <b>25276</b> | <b>Demonstrate knowledge of lead and specialist flashings for concrete roof tiles</b>               | <b>4</b>     | <b>2</b>        | <b>New</b>             |
| <b>25277</b> | <b>Demonstrate knowledge of metal roof and wall cladding systems</b>                                | <b>2</b>     | <b>8</b>        | <b>New</b>             |
| <b>25278</b> | <b>Describe metal roof and wall cladding preparation and installation procedures</b>                | <b>3</b>     | <b>10</b>       | <b>New</b>             |
| <b>25279</b> | <b>Describe metal flashings and penetrations</b>  | <b>4</b>     | <b>10</b>       | <b>New</b>             |
| <b>25280</b> | <b>Describe the system characteristics and installation process for translucent roof</b>            | <b>3</b>     | <b>8</b>        | <b>New</b>             |
| <b>25281</b> | <b>Describe re-roofing an existing metal roof</b>   | <b>3</b>     | <b>3</b>        | <b>New</b>             |
| <b>25282</b> | <b>Form and install flashings for metal roof and wall cladding</b>                                  | <b>4</b>     | <b>25</b>       | <b>New</b>             |
| <b>25283</b> | <b>Demonstrate knowledge of metal roof tile systems</b>   | <b>2</b>     | <b>6</b>        | <b>New</b>             |
| <b>25284</b> | <b>Demonstrate knowledge of metal roof tile preparation planning and organisation</b>               | <b>3</b>     | <b>4</b>        | <b>New</b>             |
| <b>25285</b> | <b>Describe metal roof tile installation procedures</b>   | <b>3</b>     | <b>8</b>        | <b>New</b>             |
| <b>25286</b> | <b>Describe re-roofing an existing metal tile roof</b>  | <b>3</b>     | <b>3</b>        | <b>New</b>             |
| <b>25287</b> | <b>Explain metal roof tile specialist flashings and penetration installations</b>                   | <b>4</b>     | <b>6</b>        | <b>New</b>             |
| <b>25288</b> | <b>Form and install flashings for metal roof tiles</b>  | <b>4</b>     | <b>15</b>       | <b>New</b>             |
| <b>25289</b> | <b>Demonstrate knowledge of roof membrane</b>   | <b>2</b>     | <b>6</b>        | <b>New</b>             |
| <b>25290</b> | <b>Describe roof membrane preparation and installation procedures</b>                               | <b>3</b>     | <b>10</b>       | <b>New</b>             |
| <b>25291</b> | <b>Explain roof membrane installation, re-roofing considerations, and potential problems</b>        | <b>4</b>     | <b>6</b>        | <b>New</b>             |

| <b>Id</b> | <b>Title</b>   | <b>Level</b> | <b>Credit</b> | <b>Review Category</b> |
|-----------|--|--------------|---------------|------------------------|
| 25292     | Demonstrate knowledge of liquid roof membrane systems  | 2            | 6             | New                    |
| 25293     | Describe liquid roof membrane preparation and application procedures                           | 3            | 8             | New                    |
| 25294     | Explain liquid roof membrane installation, re-roofing considerations, and potential problems   | 4            | 4             | New                    |
| 25295     | Demonstrate knowledge of torch on roof membrane systems  | 2            | 6             | New                    |
| 25296     | Describe torch on roof membrane preparation and installation procedures                        | 3            | 10            | New                    |
| 25297     | Explain torch on roof membrane installation, re-roofing considerations, and potential problems | 4            | 4             | New                    |
| 25298     | Demonstrate knowledge of roof shingle systems  | 2            | 6             | New                    |
| 25299     | Describe roof shingle preparation and installation procedures                                  | 3            | 12            | New                    |
| 25300     | Explain roof shingle installation, re-roofing considerations, and potential problems           | 4            | 6             | New                    |