

Field Manufacturing**Review of *Fellmongery Processing* and *Leather Manufacturing* unit standards**

| Subfield | Domain | ID |
|-----------------------|--------------------------------|--|
| Leather Manufacturing | Bovine Leather Manufacture | 8219-8225 |
| | Hide Processing | 8011-8017, 8020, 21828-21831 |
| | Leather Manufacture | 8249-8269 |
| | Leather Manufacture Technology | 8377-8408 |
| | Light Leather Manufacture | 8226-8236 |
| | Woolskin Manufacture | 8237-8248 |
| Meat Processing | Fellmongery Processing | 6541, 6542, 6545, 6548, 6550,6551, 16482-16493, 16507, 16528,18568-18575, 22159, 22160, 25143, 25148 |

The New Zealand Industry Training Organisation has completed the review of the unit standards listed above.

Date new versions published

February 2013

Planned review date

December 2017

Summary

The leather processing and fellmongery industries reviewed the unit standards in the *Leather Manufacturing* subfield that were due for review in December 2012 and the *Fellmongery Processing* domain that were due for review in 2014. As a result of the review and in line with a move to streamline qualifications in the meat processing area the industry decided that leather manufacturing was an artificial distinction as most leather processing and fellmongery is carried out by similar organisations. They therefore advised that it was more appropriate to lapse (expire) the *Leather Manufacturing* subfield and all of the domains in the leather manufacturing area and move the unit standards into a new *Fellmongery and Leather Processing* subfield with domains in *Leather Processing Skills*, *Leather Processing Knowledge*, *Fellmongery Processing Skills* and *Fellmongery Processing Knowledge*.

As part of this exercise 73 unit standards have been designated as expiring and will not be replaced as they are no longer fit for purpose or have not been used. 21 unit standards have been replaced with new unit standards at a higher level, resulting in 16 new unit standards as the needs analysis showed the knowledge and skills are required to be carried out with minimal supervision and therefore require a higher level of skill. These changes were made and endorsed by the industry in January 2012.

Main changes

- The *Leather Manufacturing* subfield has been designated as expiring and replaced with a new subfield of *Fellmongery and Leather Processing*.
- The *Bovine Leather Manufacture*, *Hide Processing*, *Leather Manufacture*, *Leather Manufacture Technology*, *Light Leather Manufacture* and *Woolskin Manufacture*

domains have been designated as expiring and replaced with two new domains of *Leather Processing Skills* and *Leather Processing Knowledge*.

- The *Fellmongery Processing* domain has been designated as expiring and replaced by two new domains of *Fellmongery Processing Skills* and *Fellmongery Processing Knowledge*.
- 73 unit standards have been designated as expiring and will not be replaced.
- 21 unit standards have been designated as expiring and replaced with 16 new unit standards.
- 19 unit standards have had the available grades changed from achieved and merit to just achieved.

Category C and D unit standards will expire at the end of December 2015

Impact on existing organisations with consent to assess

| Current consent for | | | Consent extended to | | |
|---------------------|--------------------------------|-------|---------------------|------------------------------------|-------|
| Nature of consent | Classification or ID | Level | Nature of consent | Classification or ID | Level |
| Subfield | Leather Manufacturing | 8 | Subfield | Fellmongery and Leather Processing | 8 |
| Subfield | Meat Processing | Any | Domain | Fellmongery Processing Knowledge | Same |
| | | | Domain | Fellmongery Processing Skills | Same |
| Domain | Fellmongery Processing | Any | Domain | Fellmongery Processing Knowledge | Same |
| | | | Domain | Fellmongery Processing Skills | Same |
| Domain | Hide Processing | Any | Domain | Leather Processing Knowledge | Same |
| | | | Domain | Leather Processing Skills | Same |
| Domain | Leather Manufacture Technology | Any | Domain | Leather Processing Knowledge | Same |
| | | | Domain | Leather Processing Skills | Same |

Impact on Consent and Moderation Requirements (CMR)

Review category B *Leather Manufacturing* unit standards have been transferred from CMR 0185 to CMR 0033.

Impact on registered qualifications

| Key to type of impact | |
|--------------------------------|--|
| Affected | The qualification lists a reviewed classification (domain or subfield) in an elective set The qualification lists a standard that has changes to level or credits The qualification lists a C or D category standard |
| Not materially affected | The qualification lists a standard that has a new title The qualification lists a standard that has a new classification |

The following New Zealand Industry Training Organisation qualifications are impacted by the outcome of this review and will be updated when they are reviewed in 2013. The classifications and/or standards that generated the status *Affected* are listed in **bold**.

| Ref | Qualification Title | Classification or ID |
|------------|---|---|
| 0317 | National Certificate in Bovine Leather Manufacture with strands in Tanning, Retanning and Dyeing, and Finishing | 8012-8014, 8020, 8219-8224, 8249-8262, 8264, 8266-8267, 8269, 8377-8378, 21831 |
| 0318 | National Certificate in Light Leather Manufacture with strands in Tanning, and Retanning and Dyeing | 8226-8229, 8236, 8250, 8263, 8264-8266, 8377, 8378 |
| 0319 | National Certificate in Woolskin Manufacture with strands in Tanning, Retanning and Dyeing, and Finishing | 8237-8243, 8248, 8257-8259, 8262, 8263, 8264-8268, 8377, 8378 |
| 0419 | National Certificate in Leather Manufacture Technology (Introductory) (Level 3) available with Merit | 8383-8386, 8387-8390 |
| 0420 | National Certificate in Leather Manufacture Technology (Advanced) (Level 4) available with Merit | 8380, 8383-8385, 8387-8389, 8391, 8392, 8395, 8398-8408 |
| 0687 | National Certificate in Fellmongery Processing (Level 2) | Fellmongery Processing |
| 0688 | National Certificate in Fellmongery Processing with strands in Slipe Wool Grading, Pickled Pelt Grading and Pickled Pelt Processing | 6541, 8377, 16487, 16491, 16507, 16528, 18572, 18574 |
| 0692 | National Certificate in Meat Processing (Level 4) with strands in Supervisory Management, and Risk Management | 16507, 16528 |
| 0717 | National Certificate in Hide Processing (Level 2) | Leather Manufacturing, Hide Processing, 8011 |
| 0913 | National Certificate in Fellmongery Processing (Knowledge of Slip Wool and Pickled Pelt Production) | Fellmongery Processing, 18568-18574, 18575 |

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

All changes are in **bold**.

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

Manufacturing > Leather Manufacturing > Bovine Leather Manufacture

| ID | Title | Level | Credit | Review Category |
|------|---|-------|--------|-----------------|
| 8219 | Grade wet blue hides for leather processing | 3 | 30 | D |
| 8220 | Shave bovine leather | 3 | 15 | D |
| 8221 | Segment and trim split bovine leather | 2 | 2 | D |
| 8222 | Grade bovine drop splits for leather processing | 3 | 10 | D |
| 8223 | Complete bovine leather sammying and/or setting processes | 3 | 5 | D |
| 8224 | Grade and trim bovine crust leather | 3 | 30 | D |
| 8225 | Grade and trim finished bovine leather | 4 | 40 | D |

Manufacturing > Leather Manufacturing > Hide Processing

| ID | Title | Level | Credit | Review Category |
|-------|--|-------|--------|-----------------|
| 8012 | Receive, handle, and dispatch hide processing products | 2 | 8 | D |
| 8014 | Process head pieces and hide trimmings | 3 | 3 | D |
| 8020 | Complete hide processing cleaning programmes | 2 | 5 | D |
| 21829 | Open up and trim salted processed skins prior to grading and packing | 2 | 10 | D |
| 21831 | Weigh and pack wet processed hides | 3 | 10 | D |

Manufacturing > Leather Manufacturing > Leather Manufacture

| ID | Title | Level | Credit | Review Category |
|------|--|-------|--------|-----------------|
| 8249 | Split leather | 3 | 35 | D |
| 8250 | Operate leather vacuum drying processes | 3 | 10 | D |
| 8251 | Operate leather dry drumming processes | 3 | 10 | D |
| 8252 | Complete leather staking processes | 3 | 10 | D |
| 8253 | Toggle dry leather | 3 | 15 | D |
| 8254 | Hang dry leather | 3 | 10 | D |
| 8255 | Condition leather | 2 | 5 | D |
| 8256 | Buff and polish leather | 3 | 20 | D |
| 8257 | Operate leather spray coating processes | 3 | 40 | D |
| 8258 | Operate leather roller coating processes | 3 | 20 | D |
| 8259 | Operate manual leather spray coating processes | 3 | 10 | D |
| 8260 | Operate leather embossing presses | 3 | 8 | D |
| 8261 | Operate leather ironing machinery | 3 | 5 | D |
| 8262 | Measure leather | 3 | 10 | D |
| 8264 | Complete manual tannery operations | 2 | 15 | D |
| 8265 | Complete light leather or woolskin sammying and/or setting processes | 2 | 10 | D |
| 8266 | Operate equipment for tannery waste disposal systems | 3 | 10 | D |
| 8267 | Pack finished leather | 2 | 3 | D |
| 8268 | Operate leather paddle machinery | 3 | 30 | D |
| 8269 | Operate leather vacuum stretching processes | 2 | 5 | D |

Manufacturing > Leather Manufacturing > Leather Manufacture Technology

| ID | Title | Level | Credit | Review Category |
|------|--|-------|--------|-----------------|
| 8377 | Operate pickling and/or tanning drums or processors | 3 | 35 | D |
| 8378 | Operate post-tanning drums or processors | 3 | 50 | D |
| 8379 | Select hides or skins for tanning | 4 | 20 | D |
| 8381 | Select chemicals for tannery processes | 4 | 15 | D |
| 8387 | Demonstrate knowledge of environmental pollutants in tannery discharges | 3 | 7 | D |
| 8388 | Demonstrate knowledge of hazards associated with chemicals used within tanneries | 3 | 6 | D |
| 8389 | Demonstrate knowledge of the principles of quality assurance used in tanneries | 3 | 6 | D |
| 8390 | Demonstrate knowledge of tannery quality control | 3 | 7 | D |
| 8396 | Prepare leather dye recipes from shade samples | 5 | 25 | D |
| 8397 | Prepare leather finishing recipes from shade samples | 5 | 25 | D |

Manufacturing > Leather Manufacturing > Light Leather Manufacture

| ID | Title | Level | Credit | Review Category |
|------|---|-------|--------|-----------------|
| 8226 | Shave light leather | 3 | 15 | D |
| 8227 | Complete light leather wet wheeling processes | 3 | 20 | D |
| 8228 | Grade wet blue suede skins for further processing | 3 | 15 | D |
| 8229 | Grade wet blue skins for further processing | 3 | 25 | D |
| 8230 | Complete light leather dry wheeling processes | 3 | 15 | D |
| 8231 | Operate light leather snuffer machinery | 3 | 10 | D |
| 8232 | Operate light leather blocking machinery | 3 | 20 | D |
| 8233 | Operate light leather carpet wheeling machinery | 2 | 3 | D |
| 8234 | Grade and trim light crust leather | 3 | 30 | D |
| 8235 | Grade and trim finished light leather | 4 | 40 | D |

Manufacturing > Leather Manufacturing > Woolskin Manufacture

| ID | Title | Level | Credit | Review Category |
|------|---|-------|--------|-----------------|
| 8237 | Complete manual operations for wet area woolskin tanning processing | 2 | 15 | D |
| 8238 | Operate woolskin wet buffing machinery | 3 | 25 | D |
| 8239 | Operate woolskin degreasing machinery | 3 | 40 | D |
| 8240 | Sort wet woolskins for further processing | 3 | 30 | D |
| 8241 | Operate woolskin pre-finishing machinery | 3 | 35 | D |
| 8242 | Operate non-complex or single woolskin finishing machinery | 3 | 35 | D |
| 8243 | Trim, shape, and grade finished woolskins | 4 | 35 | D |
| 8244 | Sort crust woolskins | 4 | 30 | D |
| 8245 | Match woolskins | 3 | 20 | D |
| 8246 | Cut woolskins to patterns for product manufacture | 3 | 20 | D |
| 8247 | Operate sewing machines for woolskin manufacture | 3 | 30 | D |

Manufacturing > Meat Processing > Fellmongery Processing

| ID | Title | Level | Credit | Review Category |
|-------|---|-------|--------|-----------------|
| 6542 | Receive, handle, and dispatch fellmongery products | 2 | 8 | D |
| 6545 | Recover slipemaster wool | 3 | 5 | D |
| 6548 | Bin and bale slipe wool | 3 | 3 | D |
| 6550 | Clean fellmongery department machinery, equipment and facilities | 2 | 5 | D |
| 16483 | Work in a team to pre-flesh skins prior to wool removal | 2 | 5 | D |
| 16507 | Demonstrate knowledge of chemicals used in a fellmongery | 2 | 5 | D |
| 16528 | Demonstrate knowledge of environmental pollutants in fellmongery discharges | 3 | 7 | D |
| 18572 | Demonstrate knowledge of treatment systems used for fellmongery and pelt-house waste discharges | 3 | 8 | D |
| 18575 | Demonstrate knowledge of products manufactured from dresser skins and pickled pelts | 3 | 8 | D |
| 22160 | Rehydrate preserved green skins | 3 | 5 | D |

Manufacturing > Leather Manufacturing

Manufacturing > Fellmongery and Leather Processing

| ID | Domain | Title | Level | Credit | Review Category |
|------|--|---|--------|--------|-----------------|
| 8011 | Hide Processing Leather Processing Knowledge | Demonstrate knowledge of hide processing operations | 2 | 2 | B |
| 8013 | Hide Processing Leather Processing Skills | Prepare hides for processing | 2 3 | 3 | B |
| 8015 | Hide Processing Leather Processing Skills | Complete wet salting hide process | 3 | 12 | B |

| ID | Domain | Title | Level | Credit | Review Category |
|--------------|---|--|---------------|-----------------|-----------------|
| 8016 | Hide Processing | Prepare and flesh hides using a fleshing machine | 2 | 15 | C |
| 8236 | Light Leather Manufacture | Operate light leather fleshing machines | 3 | 15 | C |
| 8248 | Woolskin Manufacture | Operate woolskin fleshing machines | 3 | 30 | C |
| 21828 | Hide Processing | Sharpen and maintain hide fleshing machinery | 2 | 10 | C |
| 27904 | Leather Processing Skills | Prepare, operate and maintain hide fleshing machines | 3 | 20 | |
| 8017 | Hide Processing Leather Processing Skills | Operate sammer to prepare wet blue hides for grading and packing | 2 3 | 10 | B |
| 8263 | Leather Manufacture Leather Processing Knowledge | Demonstrate knowledge of tannery operations | 2 | 5 | B |
| 8380 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of chemistry used in leather manufacture | 3 4 | 10 12 | B |
| 8382 | Leather Manufacture Technology Leather Processing Knowledge | Develop tannery production processes for product development | 5 | 60 40 | B |
| 8383 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of hides and skins used in leather manufacture | 3 | 7 | B |
| 8384 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of hide and skin structure | 3 | 6 | B |

| ID | Domain | Title | Level | Credit | Review Category |
|--------------|---|--|----------|-----------------|-----------------|
| 8385 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of hide and skin faults | 3 | 6 | B |
| 8386 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of manufacturing stages used in leather manufacture | 3 | 10 | B |
| 8391 | Leather Manufacture Technology | Demonstrate knowledge of chemical testing in tanneries | 3 | 5 | C |
| 27893 | Leather Processing Knowledge | Analyse chemical testing in tanneries | 5 | 5 | |
| 8392 | Leather Manufacture Technology | Demonstrate knowledge of physical testing of leather | 3 | 5 | C |
| 27894 | Leather Processing Knowledge | Analyse physical testing of leather | 5 | 5 | |
| 8393 | Leather Manufacture Technology Leather Processing Knowledge | Research and develop leather processes and products | 6 | 80 40 | B |
| 8394 | Leather Manufacture Technology Leather Processing Knowledge | Develop systems for managing tannery waste discharges | 6 | 40 | B |
| 8395 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of leather colour Analyse and evaluate leather colour | 5 | 6 8 | B |
| 8398 | Leather Manufacture Technology | Demonstrate knowledge of leather finishing | 4 | 8 | C |
| 27908 | Leather Processing Knowledge | Analyse and evaluate leather finishing requirements | 5 | 8 | |

| ID | Domain | Title | Level | Credit | Review Category |
|--------------------------|---|---|-------------------|-------------------|-----------------|
| 8399 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of chrome tannage Evaluate chrome tannage | 5 | 6 8 | B |
| 8400 27898 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of vegetable tannage Evaluate vegetable tannage | 4 5 | 8 8 | C |
| 8401 27899 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of pretannage processes for bovine hides Evaluate pretannage processes for bovine hides | 4 5 | 5 5 | C |
| 8402 27895 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of pretannage processes for woolskins Evaluate pretannage processes for woolskins | 3 5 | 5 5 | C |
| 8403 27900 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of chrome leather wet post tannage processes Evaluate chrome leather wet post tannage processes | 4 5 | 6 6 | C |
| 8404 27901 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of woolskin post tannage processes Evaluate woolskin post tannage processes | 4 5 | 6 6 | C |
| 8405 27902 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of vegetable leather wet post tannage processes Evaluate vegetable leather wet post tannage processes | 4 5 | 6 6 | C |
| 8406 27896 | Leather Manufacture Technology Leather Processing Knowledge | Demonstrate knowledge of leather drying methods and conditioning Evaluate leather drying methods and conditioning | 3 5 | 5 5 | C |

| ID | Domain | Title | Level | Credit | Review Category |
|--------------|---|---|----------|----------|-----------------|
| 8407 | Leather Manufacture Technology | Demonstrate knowledge of miscellaneous tannages | 4 | 8 | C |
| 27903 | Leather Processing Knowledge | Analyse miscellaneous tannages | 5 | 8 | |
| 8408 | Leather Manufacture Technology | Demonstrate knowledge of measurements used in leather manufacture | 3 | 4 | C |
| 27897 | Leather Processing Knowledge | Analyse measurements used in leather manufacture | 4 | 4 | |
| 21830 | Hide Processing | Grade wet salted processed hides | 3 | 10 | B |
| | Leather Processing Skills | | | | |

Manufacturing > Meat Processing

Manufacturing > Fellmongery and Leather Processing

| ID | Domain | Title | Level | Credit | Review Category |
|--------------|---|---|----------|-----------|-----------------|
| 6541 | Fellmongery Processing | Demonstrate knowledge of sheepskin fellmongery operations | 2 | 4 | B |
| | Fellmongery Processing Knowledge | | | | |
| 6551 | Fellmongery Processing | Grade and select green skins | 2 | 15 | C |
| 27909 | Fellmongery Processing Skills | Grade green skins | 4 | 20 | |
| 16482 | Fellmongery Processing | Prepare skins for wool removal | 2 | 4 | C |
| 16484 | Fellmongery Processing | Wash skins prior to wool removal | 2 | 3 | C |
| 27887 | Fellmongery Processing Skills | Prepare and wash skins for wool removal | 3 | 6 | |
| 16485 | Fellmongery Processing | Operate depilatory paint process for green skins | 3 | 10 | C |
| 16486 | Fellmongery Processing | Prepare depilatory paint process for green skins | 3 | 10 | C |
| 27889 | Fellmongery Processing Skills | Prepare and apply depilatory paint process for green skins | 3 | 15 | |

| ID | Domain | Title | Level | Credit | Review Category |
|-------|---|---|--------|----------|-----------------|
| 16487 | Fellmongery Processing Fellmongery Processing Skills | Grade slipe wool | 3 4 | 45 20 | B |
| 16488 | Fellmongery Processing Fellmongery Processing Skills | Pull slipe wool | 2 3 | 5 | B |
| 16489 | Fellmongery Processing Fellmongery Processing Skills | Wash slipe wool | 2 3 | 5 | B |
| 16490 | Fellmongery Processing Fellmongery Processing Skills | Dry slipe wool | 3 | 15 | B |
| 16491 | Fellmongery Processing Fellmongery Processing Skills | Grade processed pelts | 3 4 | 45 20 | B |
| 16492 | Fellmongery Processing Fellmongery Processing Skills | Press and pack processed pelts | 2 3 | 2 | B |
| 16493 | Fellmongery Processing Fellmongery Processing Skills | Butt and prepare pelts for packing | 2 3 | 3 | B |
| 18568 | Fellmongery Processing Fellmongery Processing Knowledge | Demonstrate knowledge of fellmongery raw materials and its preparation for fellmongering | 3 | 8 | B |
| 18569 | Fellmongery Processing Fellmongery Processing Knowledge | Demonstrate knowledge of depilation chemistry and depilatory paint preparation and use in a fellmongery | 3 | 8 | B |

| ID | Domain | Title | Level | Credit | Review Category |
|-----------|---|--|--------------|---------------|------------------------|
| 18570 | Fellmongery Processing Fellmongery Processing Knowledge | Demonstrate knowledge of fellmongery paint tables, painted skin holding and machine wool pulling | 3 | 8 | B |
| 18571 | Fellmongery Processing Fellmongery Processing Knowledge | Demonstrate knowledge of wool grading, washing and drying, and slipe wool usages | 3 | 8 | B |
| 18573 | Fellmongery Processing Fellmongery Processing Knowledge | Demonstrate knowledge of principles and practices of lamb and sheep pelt liming, deliming and bating | 3 | 8 | B |
| 18574 | Fellmongery Processing Fellmongery Processing Knowledge | Demonstrate knowledge of principles and practices of lamb and sheep pelt pickling and grading | 3 | 8 | B |
| 22159 | Fellmongery Processing Fellmongery Processing Skills | Preserve green skins | 3 | 5 | B |
| 25143 | Fellmongery Processing Fellmongery Processing Skills | Trim skins for wool removal | 2 3 | 3 | B |
| 25148 | Fellmongery Processing Fellmongery Processing Knowledge | Demonstrate knowledge of the New Zealand fellmongery industry | 2 | 3 | B |