

FIELD MANUFACTURING**Review of *Leather Manufacturing* unit standards**

Subfield	Domain	Id
Leather Manufacturing	Bovine Leather Manufacture	8219-8225
	Hide Processing	8011-8017, 8020
	Leather Manufacture	8249-8269
	Leather Manufacture Technology	8377-8408
	Light Leather Manufacture	8226-8236
	Woolskin Manufacture	8237-8248

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

Date new versions published

December 2007

Planned review date

31 December 2012

Summary of review and consultation process

From December 2005 to December 2006, feedback was sought from representatives of the Leather Industry to identify unit standards in the Leather Manufacturing subfield that required amending to meet current industry requirements and to ensure that the credits and Levels allocated to the unit standards accurately reflected the levels of understanding and the time required to acquire the industry skills.

Feedback in the leather technology area was provided by the Leather and Shoe Research Association (LASRA) who are responsible for the assessment and training in the technology area. Unit standards in the Bovine Leather Manufacture, Hide Processing, and Woolskin Manufacture domains were promulgated to the wider industry which consists of company training staff, independent trainers and assessors, and other industry providers.

Main changes resulting from the review

- Changes have been made to special notes, range statements, and definitions in some unit standards.
- Elements and performance criteria have been amended to reflect the specific skills required, to improve clarity, and for consistency of style throughout the application.
- Titles have been changed in unit standards 8016, 8237, 8241, 8242, 8268, 8382, 8389, 8390, and 8406.

Impact on existing provider accreditations

None.

Impact on Accreditation and Moderation Action Plan (AMAP)

None.

Impact on existing qualifications

None.

Review categories and changes to 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

Subfield Leather Manufacturing
Domain Bovine Leather Manufacture

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

Domain Hide Processing

Id	Title	Level	Credit	Review Category
8011	Demonstrate knowledge of hide processing operations	2	2	B
8012	Receive, handle, and dispatch hide processing products	2	8	B
8013	Prepare hides for processing	2	2	B
8014	Process head pieces and hide trimmings	2	5	B
8015	Complete wet salting hide process	3	15	B
8016	Operate hide fleshing machinery Prepare and flesh hides using a fleshing machine	2	15	B
8017	Operate sammer to prepare wet blue hides for grading and packing	2	10	B
8020	Complete hide processing cleaning programmes	2	5	B

Domain Leather Manufacture

Id	Title	Level	Credit	Review Category
8249	Split leather	3	35	B
8250	Operate leather vacuum drying processes	3	10	B
8251	Operate leather dry drumming processes	3	10	B

Id	Title	Level	Credit	Review Category
8252	Complete leather staking processes	3	10	B
8253	Toggle dry leather	3	15	B
8254	Hang dry leather	3	10	B
8255	Condition leather	2	5	B
8256	Buff and polish leather	3	20	B
8257	Operate leather spray coating processes	3	40	B
8258	Operate leather roller coating processes	3	20	B
8259	Operate manual leather spray coating processes	3	10	B
8260	Operate leather embossing presses	3	8	B
8261	Operate leather ironing machinery	3	5	B
8262	Measure leather	3	10	B
8263	Demonstrate knowledge of tannery operations	2	5	B
8264	Complete manual tannery operations	2	15	B
8265	Complete light leather or woolskin sammying and/or setting processes	2	10	B
8266	Operate equipment for tannery waste disposal systems	3	10	B
8267	Pack finished leather	2	3	B
8268	Operate paddle machinery Operate leather paddle machinery	3	30	B
8269	Operate leather vacuum stretching processes	2	5	B

Domain Leather Manufacture Technology

Id	Title	Level	Credit	Review Category
8377	Operate pickling and/or tanning drums or processors	3	35	B
8378	Operate post-tanning drums or processors	3	50	B
8379	Select hides or skins for tanning	4	20	B
8380	Demonstrate knowledge of chemistry used in leather manufacture	3	10	B
8381	Select chemicals for tannery processes	4	15	B
8382	Develop tannery production procedures Develop tannery production processes for product development	5	60	B
8383	Demonstrate knowledge of hides and skins used in leather manufacture	3	7	B
8384	Demonstrate knowledge of hide and skin structure	3	6	B
8385	Demonstrate knowledge of hide and skin faults	3	6	B
8386	Demonstrate knowledge of manufacturing stages used in leather manufacture	3	10	B
8387	Demonstrate knowledge of environmental pollutants in tannery discharges	3	7	B
8388	Demonstrate knowledge of hazards associated with chemicals used within tanneries	3	6	B

Id	Title	Level	Credit	Review Category
8389	Demonstrate knowledge of the principles of quality assurance used within tanneries Demonstrate knowledge of the principles of quality assurance used in tanneries	3	6	B
8390	Demonstrate knowledge of practical tannery quality control Demonstrate knowledge of tannery quality control	3	7	B
8391	Demonstrate knowledge of chemical testing in tanneries	3	5	B
8392	Demonstrate knowledge of physical testing of leather	3	5	B
8393	Research and develop leather processes and products	6	80	B
8394	Manage tannery waste discharges	6	40	B
8395	Demonstrate knowledge of leather colour	5	6	B
8396	Prepare leather dye recipes from shade samples	5	25	B
8397	Prepare leather finishing recipes from shade samples	5	25	B
8398	Demonstrate knowledge of leather finishing	4	8	B
8399	Demonstrate knowledge of chrome tannage	5	6	B
8400	Demonstrate knowledge of vegetable tannage	4	8	B
8401	Demonstrate knowledge of pretannage processes for bovine hides	4	5	B
8402	Demonstrate knowledge of pretannage processes for woolskins	3	5	B
8403	Demonstrate knowledge of chrome leather wet post tannage processes	4	6	B
8404	Demonstrate knowledge of woolskin post tannage processes	4	6	B
8405	Demonstrate knowledge of vegetable leather wet post tannage processes	4	6	B
8406	Demonstrate knowledge of leather drying Demonstrate knowledge of leather drying methods and conditioning	3	5	B
8407	Demonstrate knowledge of miscellaneous tannages	4	8	B
8408	Demonstrate knowledge of measurements used in leather manufacture	3	4	B

Domain Light Leather Manufacture

Id	Title	Level	Credit	Review Category
8226	Shave light leather	3	15	B
8227	Complete light leather wet wheeling processes	3	20	B
8228	Grade wet blue suede skins for further processing	3	15	B
8229	Grade wet blue skins for further processing	3	25	B
8230	Complete light leather dry wheeling processes	3	15	B

Id	Title	Level	Credit	Review Category
8231	Operate light leather snuffer machinery	3	10	B
8232	Operate light leather blocking machinery	3	20	B
8233	Operate light leather carpet wheeling machinery	2	3	B
8234	Grade and trim light crust leather	3	30	B
8235	Grade and trim finished light leather	4	40	B
8236	Operate light leather fleshing machines	3	15	B

Domain Woolskin Manufacture

Id	Title	Level	Credit	Review Category
8237	Complete manual operations for wet area woolskin processing Complete manual operations for wet area woolskin tanning processing	2	15	B
8238	Operate woolskin wet buffing machinery	3	25	B
8239	Operate woolskin degreasing machinery	3	40	B
8240	Sort wet woolskins for further processing	3	30	B
8241	Operate woolskin processing machinery in pre-finishing areas Operate woolskin pre-finishing machinery	3	35	B
8242	Operate woolskin finishing machinery Operate non-complex or single woolskin finishing machinery	3	35	B
8243	Trim, shape, and grade finished woolskins	4	35	B
8244	Sort crust woolskins	4	30	B
8245	Match woolskins	3	20	B
8246	Cut woolskins to patterns for product manufacture	3	20	B
8247	Operate sewing machines for woolskin manufacture	3	30	B
8248	Operate woolskin fleshing machines	3	30	B