

**FIELD AGRICULTURE, FORESTRY AND FISHERIES****Review and Rollover of *Agriculture* unit standards**

<b>Subfield</b>	<b>Domain</b>	<b>Id</b>
Agriculture	Arable Farming	868, 869, 19065-19071
	Cattle Farming	10082, 19072, 19074, 19075, 19080, 19082, 19084, 19086, 19087
	Farming Skills	15, 16, 18, 574, 575, 582, 584, 10087, 19081, 19101-19103, 19106-19123
	Goat Farming	<b>1518, 1520, 1525, 1529, 1534</b>
	Sheep Farming	571, 577, 578, 581, 1523, 1531, 10090, <b>15609-15612</b> , 19146-19149, 19152, 19154, 19157

The Agriculture Industry Training organisation has completed the review of the unit standards listed above. The unit standards highlighted in **bold** have not been reviewed, but simply rolled over to extend their currency until a full review can be carried out on them later in 2008.

**Date new versions published**

**April 2008**

**Planned review date for unit standards 1518, 1520, 1525, 1529, 1534 and 15609-15612**

**December 2008**

**Planned review date for all other unit standards**

**December 2012**

**Summary of review and consultation process**

The unit standards were reviewed because they had reached their planned review date.

A review panel made up of key industry representatives and Agriculture ITO field staff from each of the farming sectors was identified, and meetings were convened. Initial discussions focused on the current status of the industry sector, any changes which had occurred since the last review which impacted on training, and the future direction of the industry.

Role holders and associated skills and knowledge were identified for each industry sector. The information collected was compared with existing unit standards and changes made in consultation with industry representatives. New unit standards were written where gaps existed.

Feedback received since the last review was also considered by the review panels, and where this was considered valid, was included in the updated versions of unit standards.

Draft unit standards were circulated for internal ITO consultation to training advisors, key accounts managers, and moderators. Suggestions were further considered by the review panel and incorporated if valid.

Final drafts were then placed on the website and all stakeholders were notified of the opportunity to provide feedback. Stakeholders consisted of farmers, farmer trainers, industry sector organisations, training providers, and other ITOs.

Feedback was considered by the review panel, and unit standards were updated. Unit standards were endorsed by the Agriculture Industry Committee prior to submission to NZQA for quality assurance.

The remainder of unit standards in domains Cattle Farming and Sheep Farming will be included in a subsequent review report.

## **Main changes resulting from the review**

### **Domain: Arable Farming**

- The title of unit standard 868 was reworded to more adequately reflect the content, and the level decreased.
- Element 2 of unit standard 19065 was deleted and a new element 2 was added.
- Element 2 of unit standard 19068 was deleted as it was covered in unit standard 19069.
- New unit standards 24615-24618 were written to cover identified gaps.
- Titles for unit standards 19067, 19068 were reworded to more adequately reflect their content.

### **Domain: Cattle Farming**

- Credits increased for unit standards 19072, 19074 and 19086.
- Unit standard 19082 was replaced by unit standards 24623 and 24624.
- Unit standards 19072 and 19087 were reclassified to domain *Dairy Farming*.
- The assessment requirements were reduced for unit standard 19074.
- Unit standard 19084 was designated Category D as the skills were covered in unit standard 19086.
- New unit standards 24620-24622 were written to cover identified gaps.
- Titles for unit standards 10082, 19074 and 19086 were reworded to more adequately reflect their content.

### **Domain: Farming Skills**

- Unit standard 19113 was replaced by unit standards 24619 and 24638 to reflect the specific requirements for cattle and sheep and reclassified into domains *Cattle Farming* and *Sheep Farming* respectively.
- Credits increased for unit standards 16, 18, 574, 575, 582, 19106, 19108, 19110, 19114, 19115, 19117 and 19118; and decreased for unit standard 19081.
- Levels increased for unit standards 16 and 19101, and decreased for unit standard 574.
- Element 3 of unit standard 18 was moved to unit standard 19102.
- Unit standard 19107 was replaced by 24632 and 24633.
- Unit standard 19121 was replaced by 24636 and 24637.
- New unit standards 24625, 24629-24631, 24634, and 24635 were written to cover identified gaps.
- Unit standard 19154 from domain *Cattle Farming* and unit standard 19080 from domain *Sheep Farming* were replaced by new unit standard 24627.
- Titles for unit standards 15, 16, 18, 582, 19101 and 19103 were reworded to more adequately reflect their content.

### **Domain: Sheep Farming**

- Credits increased for unit standards 19146, 19148, and 19149; and decreased for unit standard 571.

- Levels increased for unit standards 19149 and 19152; and decreased for unit standards 577 and 19146.
- Candidates were no longer required to prepare their own gear for assessment against unit standard 577
- Unit standards 1523 and 1531 were replaced by unit standards 24642 and 24641 respectively.
- Candidates were required to observe rather than actively separate ewes and lambs in unit standard 19148; and the list of diseases and disorders required for assessment was extended.
- The list of diseases and disorders for assessment in unit standard 19149 was extended.
- New unit standards 24639-24640, and 24643-24645 were written to cover identified gaps.
- Titles for unit standards 577, 19148, 19149, 19152 and 19157 were reworded to more adequately reflect their content.

### Unit standards categorised as category C or D expire at the end of June 2011.

#### Impact on existing provider accreditations

Current Accreditation for			Accreditation extended to		
Nature of accreditation	Classification or Id	Level	Nature of accreditation	Classification or Id	Level
Subfield	Agriculture	2	Standards	16	3
				24637	4
Subfield	Agriculture	2	Standard	19149	3
Domain	Sheep Farming	2			
Subfield	Agriculture	3	Standard	24627	4
Domain	Farming Skills	3			
Domain	Cattle Farming	3+	Standards	19072, 19087	3
			Standard	24627	4
Domain	Cattle Farming	2+	Standard	19081	2
Domain	Farming Skills	3+	Standards	24619, 24638	3
Domain	Sheep Farming	3+	Standard	24627	4
Standard	19082	3	Standards	24623	2
				24624	3
Standard	19102	3	Standard	24628	3
Standard	19121	2	Standards	24636	2
				24637	4
Standard	19113	3	Standards	24169, 24638	3
Standard	19080	3	Standard	24627	4
Standard	19154	4			
Standard	19160	2	Standard	24645	2
Standard	1523	3	Standard	24642	3
Standard	1531	3	Standard	24641	2

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

None.

## Impact on existing qualifications

Qualifications that contain the reviewed standards or classifications are tabled below.

<b>Affected</b>	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
<b>Not materially affected</b>	The qualification lists a standard that has a new title The qualification lists a standard that has a new classification

The following Agriculture ITO qualifications are impacted by the outcome of this review and are currently under review. These qualifications contain standards in both categories, with those standards which are not materially affected in **bold**.

Qualification title	Classification or standard in the qualification
National Certificate in Farming Skills (Farm Safety) (Level 2) [Ref: 0963]	19113, 19115
National Certificate in Dairy Farming (Artificial Insemination) with strands in Site Technician, and Industry Technician [Ref: 0967]	584, 19072, 19080, 19082, 19084, 19086, 19113, 19115
National Certificate Agriculture (Level 2) [Ref: 0984]	19114
National Certificate Agriculture (Level 3) [Ref: 0985] with strands in Arable Farming, Cattle Farming, Dairy Farming, Deer Farming, and Sheep Farming	<b>15</b> , 571, 577, 582, 1523, 1531, <b>10082</b> , 19074, 19075, 19082, 19084, 19086, <b>19087</b> , 19101, 19102, <b>19103</b> , 19113, 19115, 19121, 19146, 19148, 19149, <b>19157</b>
National Certificate Agriculture (Level 4) [Ref: 0986] with strands in Arable Farming, Cattle Farming, Dairy Farming, Deer Farming, and Sheep Farming	868, <b>19068</b> , 19080, 19101, 19102, <b>19103</b> , 19113, 19117
National Certificate in Wool Classing with strands in Shed Classer, and Store Classer [Ref: 0998]	571
National Certificate in Agriculture (Production Management) with strands in Arable Farming, Cattle Farming, Dairy Farming, Deer Farming, and Sheep Farming [Ref: 1188]	868, <b>19068</b> , 19117, 19118
National Certificate in Rural Servicing (Level 3) [Ref: 1254]	<b>15</b> , 18, 571, 19082, <b>19103</b> , 19117, 19121, <b>19157</b>

The following Agriculture ITO qualification is not materially affected by the changes. It will be updated when it is next reviewed.

Qualification title	Standard in the qualification
National Certificate in Dairy Farming (Herd Testing) (Level 3) [Ref: 1214]	19103

The following qualifications are also affected by the outcome of this review. The standard setting bodies (SSBs) were advised that they require revision. These qualifications contain standards in both categories, with those standards which are not materially affected in **bold**.

Qualification title	Classification or standard in the qualification	SSB Name
National Certificate in Wool Scouring (Early Stage Wool Processing (Level 4) [Ref: 0639]	571	ATITO
National Certificate in Equine (Stable Practice (Level 3) with strands in Harness Racing, Sporthorse, Thoroughbred Racing, and Track Riding [Ref: 0654]	16	Equine ITO
National Certificate in Equine (Level 4) with strands in Breeding, Harness Racing, Sporthorse, and Thoroughbred Racing [Ref: 216]	16	Equine ITO
National Certificate in Equine (Thoroughbred Breeding) (Level 4) [Ref: 1070]	16	Equine ITO
National Certificate in Meat Processing (Preparation of Livestock) [Ref: 0693]	18, 582, <b>19103</b> , 19110	NZITO
National Certificate in Meat Processing (Venison) [Ref: 0695]	18	NZITO
National Certificate in Meat Processing (Wool Estimation) [Ref: 0696]	582, <b>19103</b>	NZITO
National Certificate in Parks and Recreation (Level 3) with strands in Local Authority Park Ranger, and Parks Contractor [Ref: 1268]	16, 18, 19113	SFRITO

### Review Categories and changes to classification, titles, 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      Agriculture  
Domain        Arable Farming

Id	Title	Level	Credit	Review Category
868	Dispose of crop residues <b>Assist with disposal of crop residues</b>	4 <b>3</b>	3	B
869	Demonstrate knowledge of arable farm production	4	6	B
19065	Harvest cash crops	4	7	B
19066	Demonstrate knowledge of the function of harvesting machinery and harvesting	3	3	B
19067	Process and store a cash crop <b>Dry and store a cash crop</b>	4	5	B
19068	Plan and monitor the maintenance of crop health, under supervision <b>Plan, monitor, and report on, a crop health supervisory programme</b>	4	4	B

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
19069	Demonstrate knowledge of plant pests, diseases, and disorders, and assess control measures	3	4	B
19070	Harvest cash crops under supervision	3	5	B
19071	Demonstrate knowledge of the storage of cash crops, and evaluate methods of crop residue disposal	3	4	B
<b>24615</b>	<b>Check and report on crop health and stages of development</b>	<b>2</b>	<b>3</b>	<b>NEW</b>
<b>24616</b>	<b>Prepare and position a truck or tractor with attached bulk transport bin for harvesting</b>	<b>3</b>	<b>6</b>	<b>NEW</b>
<b>24617</b>	<b>Demonstrate knowledge of the seed certification process and requirements</b>	<b>3</b>	<b>3</b>	<b>NEW</b>
<b>24618</b>	<b>Demonstrate knowledge of crop establishment methods</b>	<b>4</b>	<b>6</b>	<b>NEW</b>

## Subfield Agriculture

<b>Id</b>	<b>Domain</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
10082	Cattle Farming	Demonstrate knowledge of rearing young cattle <b>Demonstrate knowledge rearing weaner or replacement cattle</b>	3	4	B
19072	Cattle Farming <b>Dairy Farming</b>	Rear calves, and wean onto pasture	3	7 5	B
19074	Cattle Farming	Prepare for calving and calve cows as directed <b>Prepare for calving and calve a cow as directed</b>	2	3 5	B
19075	Cattle Farming	Demonstrate knowledge of calving <b>Demonstrate knowledge of calving, and associated diseases and health disorders</b>	3	2 3	B
19081	Cattle Farming <b>Farming Skills</b>	<b>Describe feed budgeting, feed supply and demand, and methods to manage feed surpluses and deficits</b>	2	5 3	B
19082	Cattle Farming	Demonstrate knowledge of cattle breeding	3	5	C
<b>24623</b>		<b>Demonstrate knowledge of breeds and classes of cattle, and identification and records for cattle</b>	2	2	
<b>24624</b>		<b>Demonstrate knowledge of cattle genetics and selection</b>	3	5	
19084	Cattle Farming	Demonstrate knowledge of cattle mating	3	4	D

Id	Domain	Title	Level	Credit	Review Category
19086	Cattle Farming	Demonstrate knowledge of cattle reproduction <b>Demonstrate knowledge of cattle reproductive organs, cycles, and processes</b>	3	5 7	B
19087	Cattle Farming Dairy Farming	Demonstrate knowledge of calf rearing <b>Demonstrate knowledge of calf rearing from birth to weaning</b>	3	4	B
24620	Cattle Farming	<b>Describe the safe handling of cattle in yards</b>	2	5	NEW
24621	Cattle Farming	<b>Describe behaviour of, and assist with handling, bulls in a bull herd</b>	3	4	NEW
24622	Cattle Farming	<b>Handle bulls in a herd during mating</b>	3	4	NEW

## Domain Farming Skills

Id	Title	Level	Credit	Review Category
15	Demonstrate knowledge of crop production <b>Describe the end use of crops and factors which affect crop yields, and interpret seed quality</b>	2	2	B
16	Demonstrate knowledge of pasture production <b>Describe pasture plants and production, and ways to optimise pasture growth and utilisation</b>	2 3	4 5	B
18	Demonstrate understanding of animal physiology and nutrition <b>Demonstrate knowledge of animal anatomy and physiology</b>	3	7 4	B
574	Prepare and harvest hay or silage	4 3	4 5	B
575	Use and care for farm horses	3	5 7	B
582	Handle livestock when droving and drafting and when livestock are distressed <b>Handle livestock when moving and drafting and when livestock are distressed</b>	3	4 6	B
584	Demonstrate knowledge of livestock effluent management	4	4	B
10087	Plan plantings for insect and bird retention	3	5	B
19101	Demonstrate knowledge of pasture production methods <b>Describe methods to maximise pasture production, and pasture renovation and renewal</b>	3 4	5	B
19102 24628	Demonstrate knowledge of livestock feeding <b>Describe pasture supply and demand, feeds, and grazing systems</b>	3 3	7 7	C

Id	Title	Level	Credit	Review Category
19103	Demonstrate knowledge of livestock health <b>Demonstrate knowledge of methods for promoting on-farm livestock health and health problems of livestock</b>	3	8	B
19106	Assist with handling livestock when droving and drafting, and when livestock are distressed <b>Assist with handling livestock when moving and drafting, and when livestock are distressed</b>	2	2 4	B
19107	Rear and train working dogs and work a team of dogs <b>24632 Rear and train a working dog</b> <b>24633 Work a team of dogs, and maintain their health and welfare</b>	4 4 4	7 12 7	C
19108	Identify a feed surplus and supervise its conservation	4	4 6	B
19109	Demonstrate knowledge of the sale and purchase of livestock	4	5	B
19110	Use a farm dog <b>Work a farm dog, and maintain its health and welfare</b>	3	4 5	B
19111	Demonstrate knowledge of the types, breeds, uses, and health requirements of farm dogs	3	4	B
19112	Check and report on livestock	2	4	B
19114	Assist with handling and treatment of livestock	2	3 6	B
19115	Handle and move livestock	3	4 6	B
19116	Demonstrate knowledge of animal welfare and handling	2	2	B
19117	Demonstrate knowledge of meat production	4	5 7	B
19118	Describe ruminant digestion, and feeding requirements to meet production targets	5	6 8	B
19119	Set up, operate, and maintain a travelling irrigation system	3	4	B
19120	Set up, monitor, and maintain a borderdyke irrigation system	2	3	B
19121	Describe the structure and growth stages of plants, and changes in physiology and requirements <b>24636 Demonstrate knowledge of plants in the agriculture industry</b> <b>24637 Demonstrate knowledge of the modification of plant processes to optimise plant production</b>	2 2 4	7 3 4	C
19122	Set up, operate, and maintain a non-travelling spray irrigation system	2	3	B
19123	Demonstrate knowledge of irrigation systems, and calculate soil moisture and water efficiency	4	4	B

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
24625	Identify external body parts, ideal conformation, and conformation faults of livestock	3	3	NEW
24629	Feed livestock with supplementary feed as directed	2	2	NEW
24630	Assist with livestock grazing management, and feed livestock under direct supervision	2	4	NEW
24631	Assist with livestock grazing management, and feed livestock	3	6	NEW
24634	Complete documentation, and present livestock for transport, sale, or slaughter	3	8	NEW
24635	Demonstrate knowledge of, and assist with, livestock scanning	2	2	NEW

## Subfield Agriculture

<b>Id</b>	<b>Domain</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
19113	Farming Skills	Handle and treat livestock	3	6	C
24619	Cattle Farming	Handle and treat cattle	3	6	
24638	Sheep Farming	Handle and treat sheep	3	6	
19080 and 19154	Cattle Farming Sheep Farming	Describe the role of feed allocation, and feed budgeting for cattle Describe the role of farm subdivision in pasture and sheep management, and feed budgeting	3 4	3 4	C
24627	Farming Skills	Describe a feed budget and the management of pasture surplus or deficits	4	8	

## Domain Sheep Farming

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
571	Demonstrate knowledge of wool production	3	6 5	B
577	Crutch sheep Dag and crutch sheep by machine with prepared equipment	3 2	5	B
578	Kill and prepare a sheep for dog food	3	5	B
581	Dock and treat lambs	3	4	B
1523 24642	Demonstrate knowledge of sheep mating Describe sheep reproductive organs and cycles, and related management practices	3 3	4 5	C
1531 24641	Demonstrate knowledge of sheep reproduction and livestock attributes Demonstrate knowledge of features, attributes, identification, and records for sheep	3 2	4 2	C

<b>Id</b>	<b>Title</b>	<b>Level</b>	<b>Credit</b>	<b>Review Category</b>
10090	Demonstrate knowledge of rearing lambs and hoggets	3	5	B
19146	Carry out wool shed tasks during shearing operations	3 2	4 5	B
19147	Describe the activities and hazards in a wool shed during shearing from a farm perspective	2	2	B
19148	Assist with lambing <b>Identify and observe lambed and unlambed ewes, and monitor and report on ewes at lambing</b>	3	4 12	B
19149	Demonstrate knowledge of lambing <b>Describe lambing, and the procedures for assisting ewes having difficulty lambing</b>	2 3	3 4	B
19152	Assist with docking lambs <b>Assist with the preparation and handling of lambs for docking</b>	1 2	2	B
19157	Demonstrate knowledge of sheep breeding, and ram selection <b>Demonstrate knowledge of sheep genetics, and ram selection</b>	3	5	B
24639	<b>Describe how the wearing of sheep teeth affects productivity, and inspect and age sheep teeth</b>	2	3	NEW
24640	<b>Plan a route, and muster and drove a mob of sheep</b>	3	12	NEW
24643	<b>Assist with easy care lambing</b>	2	2	NEW
24644	<b>Handle ewes and lambs at lambing</b>	3	4	NEW
24645	<b>Prepare, handle, and move rams prior to tugging, and check and report on the mating mob</b>	2	3	NEW