

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

Subfield	Domain	Id
Agriculture	Agricultural Resource Maintenance	30, 31, 17204-17208, 19037, 19038, 19042
	Agricultural Vehicles and Machinery	19043, 19044, 19046-19064
	Dairy Farming	18191-18194, 18196, 18198, 18199, 19088
	General Agriculture	576, 19136-19145, 19370, 19371, 19372, 19373, 19374, 20792-20795, 20797, 20798

The Agriculture Industry Training organisation has completed the rollover and review of the unit standards listed above.

Rollover of *Agriculture* unit standards

Subfield	Domain	Id
Agriculture	Agricultural Resource Maintenance	30, 17204-17208, 19037, 19038, 19042
	General Agriculture	19370, 10371, 19373, 19374, 20792-20795, 20797, 20798

The Agriculture Industry Training organisation has completed the rollover of the unit standards listed above to maintain their currency. These unit standards will be reviewed in 2010.

Date new versions published

May 2008

Planned review date

December 2010

Review of *Agriculture* unit standards

Subfield	Domain	Id
Agriculture	Agricultural Resource Maintenance	31
	Agricultural Vehicles and Machinery	19043, 19044, 19046-19064
	Dairy Farming	18191-18194, 18196, 18198, 18199, 19088
	General Agriculture	576, 19136-19145, 19372

The Agriculture Industry Training Organisation has also completed the review of the unit standards listed above.

Date new versions published

May 2008

Planned review date

December 2013

Summary of review and consultation process

The unit standards were reviewed because they had reached their anticipated expiry date.

A review panel made up of key industry representatives and Agriculture ITO field staff from each of the farming sectors was formed, 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 review process.

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.

Unit standards 18195, 18197, 19089-19091 in the Dairy Farming domain were currently under review and would be included in a subsequent review report.

Main changes resulting from the review

Domain: Agricultural Resource Maintenance

The requirement to lay and join an on-farm water supply system for unit standard 31 was deleted, and the title has changed to more accurately reflect the amended content of the unit standard.

Domain: Agricultural Vehicles and Machinery

- Definitions in special notes have been updated, and new definitions added to assist interpretation of unit standards
- Legislation relating to the age of a person to legally drive a tractor was updated
- A special purpose vehicle (SPV) is now referred to as an All Terrain Vehicle Utility (ATVU)
- Unit standard 19043 was merged with unit standard 19049, and new elements added relating to attaching and detaching an implement. A new id 24552 was allocated.
- Unit standard 19050 was assigned Category D as the skills are more appropriately covered by 24552
- New element 1 was added to unit standard 19051

- Unit standard 19052 was split into 24536 and 24537, which covers both 2WD and 4WD tractors, and includes driving with an attached implement
- Unit standard 19055 no longer requires assessment for trailed equipment
- Unit standard 19057 was split into 24555, 24556, and 24557 to reflect the different safety requirements of motorcycles, ATVUs, and ATVs
- Unit standards 19056, 19058, 19059 and 19060 have been split into 24553 and 24554, 24558 and 24559, 24560 and 24561, and 24562 and 24563 respectively. This reflects the different requirements for ATVUs and All Terrain Vehicles (ATVs) on varying terrain, and with various types of equipment or loads, and levels and credits adjusted accordingly
- Credits have increased for unit standards 19046, 19048, 19051, 19054, and 19063 to more accurately reflect the time taken for learning and assessment
- Credits have decreased for unit standards 19044 and 19053.

Domain: Dairy Farming

- Unit standard 18198 was split into 24546 and 24567, as some trainees were not able to be assessed for all elements. Drafting cattle during milking is covered by unit standard 24548
- Unit standard 19088 was split to 24548 and 24549 to reflect the logical cluster of activities on a dairy farm, and overall credits have increased for 24548
- Unit standard 18196 was partly replaced by 24550 and 23786
- New unit standard 24551 was written to cover a gap related to handling heifers and cows following calving
- Credits have increased for unit standard 18199 from 4 to 7
- Some range statements have been amended to assist interpretation, and to provide minimum evidence requirements.

Domain: General Agriculture

- Credits have increased for unit standard 19137 from 1 to 2
- Unit standard 19139 includes a weather station as an option for gathering and recording information
- The requirement to take and interpret a soil test (practical) in unit standard 19142 was changed to knowledge (theory) of soil testing, and a new element 5 was added. Credits increased from 4 to 6
- The level for unit standard 19143 has decreased from 3 to 2
- Unit standard 19144 was replaced by unit standards 24542-24544.
- Some range statements have been amended to assist interpretation, and to provide minimum evidence requirements.

Unit standards categorised as category C or D expire at the end of December 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	3	Standard	24544	4
		2	Standards	19046, 24549, 24551	3
Domain	Agricultural Vehicles and Machinery	2	Standard	19046	3
Domain	Dairy Farming	2	Standard	24549, 24551	3
Domain	General Agriculture	3	Standard	24544	4
Standard	19043	2	Standard	24552	2
Standard	19049	2	Standard	24552	2
Standard	19050	1	Standard	24552	2
Standard	19052	3	Standards	24536, 24537	3
Standard	19056	2	Standards	24553, 24554	2
Standard	19057	2	Standards	24555, 24556, 24557	2
Standard	19058	3	Standards	24558, 24559	3
Standard	19059	3	Standards	24560, 24561	3
Standard	19060	3	Standards	24562, 24563	3
Standard	18196	3	Standard	24550	3
Standard	18198	3	Standards	24546, 24547	3
Standard	19088	2	Standard	24548	2
			Standard	24549	3
Standard	19144	3	Standard	24542	2
			Standard	24543	3
			Standard	24544	4

Impact on Accreditation and Moderation Action Plan (AMAP)

AMAP 0052 was updated to reflect the changes made to the standards.

Impact on existing qualifications

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

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 Agriculture ITO qualifications are affected by the outcome of this review and are currently under review.

Qualification title	Classification or standard in the qualification
National Certificate in Pork Production (Stockperson) (Level 3) with strands in Grower Unit, Indoor Operation, and Outdoor Operation [Ref: 0097]	19043, 19044, 19056, 19057, 19059
National Certificate in Fencing (Introduction to Fencing) [Ref: 0291]	19043, 19044, 19053, 19056
National Certificate in Fencing with strands in Non-Electric Fencing and Electric Fencing [Ref: 0324]	19052, 19058
National Certificate in Pork Production (Core Skills) [Ref: 0964]	31, 19043, 19044, 19049
National Certificate in Dairy Farming (Artificial Insemination) with strands in Site Technician, and Industry Technician [Ref: 0967]	19088
National Certificate Agriculture (Level 2) [Ref: 0984]	19043, 19044, 19050, 19053, 19056, 19057
National Certificate in Farming Skills (Farm Safety) (Level 2) [Ref: 0963]	18198, 18199, 19043, 19044, 19049, 19052, 19053, 19054, 19055, 19056, 19057, 19058, 19059, 19060
National Certificate Agriculture (Level 3) [Ref: 0985] with strands in Arable Farming, Cattle Farming, Dairy Farming, Deer Farming, and Sheep Farming	18192, 18196, 18198, 18199, 19047, 19049, 19088, 19142, 19143, 19144
National Certificate Agriculture (Level 4) [Ref: 0986] with strands in Arable Farming, Cattle Farming, Dairy Farming, Deer Farming, and Sheep Farming	18199, 19063, 19142, 19144
National Certificate in Apiculture (Level 2) [Ref: 1036]	19046
National Certificate in Pest Management with strands in Avian Pest Control, Mustelid Pest Control, Possum Pest Control, Rabbit Pest Control, and Rodent Pest Control [Ref: 1138]	19053, 19054, 19055, 19056, 19057, 19058, 19059, 19060
National Certificate in Poultry Husbandry (Level 3) with strands in Egg Production, Poultry Hatchery, and Poultry Meat Production [Ref: 1177]	19043, 19044
National Certificate in Agriculture (Production Management) with strands in Arable Farming, Cattle Farming, Dairy Farming, Deer Farming, and Sheep Farming [Ref: 1188]	19063
National Certificate in Dairy Farming (Herd Testing) (Level 3) [Ref: 1214]	18192, 18193, 18196
National Certificate in Pest Monitoring (Possum Monitoring – Field Operative) (Level 3) [Ref: 1224]	19054, 19057, 19058, 19059, 19060
National Certificate in Rural Servicing (Level 3) [Ref: 1254]	18192, 18196, 19142, 19144

The following qualifications are also affected by the outcome of this review. The standard setting bodies (SSBs) were advised that they required revision.

Qualification title	Standard	SSB Name
National Certificate in Forest Health Surveillance (Level 5) [Ref: 0909]	19058	Forest Industries Training and Education Council (FITEC)
National Certificate in Agriculture Contracting with strands in Crop Production, Land Drainage, Land Development, Hedge Trimming, Harvesting, Mowing, and Zero Tillage [Ref: 0230]	19043, 19044	Infra Train New Zealand

Qualification title	Standard	SSB Name
National Certificate in Conservation (Trainee Ranger) (Level 3) [Ref: 0642]	19056, 19057, 19058, 19059, 19060	Learning State (trading name for the Public Sector Training Organisation)
National Certificate in Amenity Turf Maintenance (Level 3) [Ref: 1078]	19043, 19044, 19049, 19050, 19052	New Zealand Sports Turf Industry Training Organisation
National Certificate in Equine (Racecourse Maintenance) (Level 3) [Ref: 0367]	19043, 19044	NZ Equine Industry Training Organisation Incorporated
National Certificate in Equine (Thoroughbred Breeding) (Level 4) [Ref: 1070]	19043, 19056	
National Certificate in Sports Turf Management) (Level 4) [Ref: 0203]	19043, 19044	Sports Turf Industry Training Organisation
National Certificate in Commercial Road Transport (Ground Spreading) [Ref: 1018]	19048	Tranzqual ITO
National Certificate in Driving (Education and Assessment) with strands in Light Motor Vehicle, Heavy Motor Vehicle, On-road Motorcycle, Off-road Motorcycle, Quad Vehicle, Four Wheel Drive (4WD) Vehicle, and Driver Educator [Ref: 0793]	19054, 19058	

Review Categories and change 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 Agriculture
Domain Agricultural Resource Maintenance

Id	Title	Level	Credit	Review Category
31	Lay and maintain agricultural and/or horticultural water supply Connect up, and perform repairs and maintenance on an on-farm water supply system	2	2	B

Domain Agricultural Vehicles and Machinery

Id	Title	Level	Credit	Review Category
19043	Check and drive a basic wheel tractor on flat terrain	2	2	C
19049	Drive a wheel tractor with an attached implement on flat terrain	2	3	
24552	Check and drive a basic wheel tractor with an attached implement on flat terrain		5	
19044	Describe the legal requirements and occupational hazards associated with tractor use	2	4 2	B

Id	Title	Level	Credit	Review Category
19046	Service and repair agricultural and/or horticultural machinery Service and repair agricultural machinery	2 3	4 6	B
19047	Describe the working principles, maintenance, and servicing of petrol and diesel engines	2	2	B
19048	Apply fertilisers using tractor, or ATV mounted, or trailed equipment Apply fertilisers using tractor or All Terrain Vehicle (ATV) with mounted or trailed equipment	3	4 6	B
19050	Drive a wheel tractor with an attached implement on flat terrain under supervision	1	2	D
19051	Drive a crawler tractor with an attached implement on undulating terrain	3	4 6	B
19052 24536 24537	Drive a wheel tractor on undulating terrain Drive a 2 wheel drive tractor with an attached implement on undulating terrain Drive a 4 wheel drive tractor with an attached implement on undulating terrain	3 3 3	3 3 3	C
19053	Ride a motorcycle on flat terrain	2	4 3	B
19054	Ride a motorcycle on undulating terrain	3	2 4	B
19055	Ride a motorcycle with either trailed or mounted equipment on flat terrain Ride a motorcycle with mounted equipment on flat terrain	3	2	B
19056 24553 24554	Ride a Special Purpose Vehicle (SPV)/All Terrain Vehicle (ATV) on flat terrain Drive an All Terrain Vehicle Utility (ATVU) on flat terrain Ride an All Terrain Vehicle (ATV) on flat terrain	2 2 2	4 3 4	C
19057 24555 24556 24557	Demonstrate knowledge of the safe operation of a motorcycle and an SPV/ATV Demonstrate knowledge of the safe operation of a motorcycle Demonstrate knowledge of the safe operation of an All Terrain Vehicle Utility (ATVU) Demonstrate knowledge of the safe operation of an All Terrain Vehicle (ATV)	2 2 2 2	4 3 3 3	C
19058 24558 24559	Ride a Special Purpose Vehicle (SPV)/All Terrain Vehicle (ATV) on undulating terrain Drive an All Terrain Vehicle Utility (ATVU) on undulating terrain Ride an All Terrain Vehicle (ATV) on undulating terrain	3 3 3	3 5 6	C

Id	Title	Level	Credit	Review Category
19059	Ride a Special Purpose Vehicle (SPV)/All Terrain Vehicle (ATV) with trailed equipment	3	2	C
24560	Drive an All Terrain Vehicle Utility (ATVU) with trailed equipment	3	3	
24561	Ride an All Terrain Vehicle (ATV) with trailed equipment	3	2	
19060	Ride a Special Purpose Vehicle (SPV)/All Terrain Vehicle (ATV) with mounted equipment or a load	3	2	C
24562	Drive an All Terrain Vehicle Utility (ATVU) with mounted equipment or a load	3	3	
24563	Ride an All Terrain Vehicle (ATV) with mounted equipment or a load	3	4	
19061	Cultivate with tractor drawn implements	3	4	B
19062	Cultivate with a tractor with more than one implement	4	5	B
19063	Describe tractor features, driving skills, and cultivation patterns that maximise tractor efficiency Describe methods to maximise tractor efficiency during cultivation	4	3 4	B
19064	Prepare to plough, and plough a paddock	4	5	B
24538	Demonstrate knowledge of the dynamics of tractors and implements, and 2WD and 4WD vehicles	3	4	New
24539	Maintain and use a power take off (PTO) implement attached to a tractor	3	4	New
24540	Maintain and use a petrol powered brushcutter	2	2	New

Domain Dairy Farming

Id	Title	Level	Credit	Review Category
18191	Demonstrate knowledge of safe handling and health problems of dairy cattle, associated with milking	2	3	B
18192	Demonstrate knowledge of how cows milk Demonstrate knowledge of how cows produce milk	2	2	B
18193	Demonstrate knowledge of farm dairy design, layout, and hazards	2	2	B
18194	Prepare for milking, and milk cows, under close supervision	1	4	B
18196	Describe the operation and maintenance of farm dairy equipment	3	6	C
24550	Describe the operation of farm dairy equipment and perform calculations relevant to the farm dairy			

Id	Title	Level	Credit	Review Category
18198	Move and handle dairy cattle for milking and mating, and restrain for treatment of health problems	3	8	C
24546	Identify and record cows on heat	3	4	
24547	Prepare equipment and treatments, restrain and treat dairy cattle, and perform drench calculations	3	6	
18199	Identify and treat milking problems in dairy cattle	3	4 7	B
19088	Assist with milking	2	6	C
24548	Assist with milking	2	8	
24549	Isolate milk unsuitable for collection, and clean the milking plant, vats or silos, dairy, and yards	3	6	
24551	Handle heifers and cows in the farm dairy following calving	3	4	New

Domain General Agriculture

Id	Title	Level	Credit	Review Category
576	Demonstrate knowledge of a specific landbased primary industry	3	4	B
19136	Demonstrate the social requirements for daily living in the rural industry	1	2	B
19137	Describe the opportunities, advantages, and disadvantages of rural employment	1	1 2	B
19138	Monitor and interpret weather information	2	4	B
19139	Gather and record information from a rain gauge, thermometer, and barometer Gather and record information from a rain gauge, thermometer, and barometer; or weather station	1	1	B
19140	Demonstrate knowledge of water use and quality, and related land use issues in primary production	3	5	B
19141	Demonstrate knowledge of land management in primary production	4	5	B
19142	Describe the role of elements and fertilisers in primary production, take and interpret a soil test Describe the role of elements and fertilisers in primary production, and soil testing	3	4 6	B
19143	Perform calculations for primary production situations	3 2	3	B

Id	Title	Level	Credit	Review Category
19144	Demonstrate knowledge of the properties and modification of soils in primary production	3	6	C
24542	Demonstrate knowledge of the impact of an agriculture system on soils	2	3	
24543	Demonstrate knowledge of the formation, and factors which influence properties, of soils on-farm	3	5	
24544	Analyse soil health status, and determine on-farm strategies for improvement	4	5	
19145	Describe hydration, nutrition, and sleep in relation to physical well-being of agriculture workers	2	4	B
19372	Describe the environmental implications of spreading fertiliser and associated activities	3	2	B
24545	Plan cultivation for a crop or pasture, and monitor the results of cultivation	4	7	New