

FIELD AGRICULTURE, FORESTRY AND FISHERIES**Review of *Rural Contracting* unit standards**

Subfield	Domain	Id
Rural Contracting	Agrichemical Application	6236-6247, 6252, 6253, 17232, 19573
	Agrichemical Contracting	6249-6251
	Agricultural Contracting	6255-6258, 6260, 6261, 6264-6280, 6283-6293, 19561-19572, 19574-19579

InfraTrain New Zealand (InfraTrain) has completed the review of the unit standards listed above.

Date new versions published

June 2007

Planned review date

December 2012

Summary of review and consultation process

The review was initiated in conjunction with examining and improving the relevance and fitness of the Rural Contracting, Agricultural Contracting, and Agrichemical Application national certificates. Industry had expressed the need to increase the uptake of these qualifications and associated Rural Contracting unit standards. The review was also prompted by changes resulting from the progressive implementation of the Hazardous Substances and New Organisms Act 1996.

The Rural Training Advisory Group (Rural TAG) was established to represent key stakeholders, including the Rural and Associated Contractors Federation of New Zealand. The Rural TAG initially convened in October 2005, followed by a series of further meetings and working groups in the months following, to September 2006. The consultation process included meetings with representatives of the Agriculture Industry Training Organisation (February 2006) and the New Zealand Agrichemical Education Trust (September 2006) to prevent unnecessary overlap and to ensure seamless alignment with the ERMA-recognised Growsafe brand certifications.

Main changes resulting from the review

- As a result of review the Agrichemical Contracting domain no longer contains any registered standards and has expired.
- Unit standards 6243, 6244, 6256, 6258, 6271, 6272, 6274, 6279, 6285, 6287-6289, 19565-19568, 19572, 19573, and 19579 have been designated as expiring and will not be replaced.
- Category C reviewed unit standards: unit standards 6249 and 6291 have been replaced by unit standard 23627; unit standards 6250 and 6251 have been replaced by unit standard 23618; unit standards 6252 and 6253 have been replaced by unit standard 23619; unit standards 6268 and 6280 have been replaced by unit standard 23638; and unit standards 6292 and 6293 have been replaced by unit standard 23628.
- 35 unit standards have had changes of title, as specified in the summary of main changes section at the end of this report.
- Three unit standards have had an increase in level and two unit standards have had a decrease in level, as specified in the summary of main changes section at the end of this report.

- Fifteen unit standards have had an increase in credits and five unit standards have had a decrease in credits, as specified in the summary of main changes section at the end of this report.
- The following unit standards have had changes to entry information: 6236, 6238, 6239, 6241, 6245, 6246, 6255, 6257, 6260, 6261, 6264-6267, 6269, 6270, 6275-6278, 6283, 6284, 6286, 6290, 19561, 19562, 19569-19571, and 19574-19576.
- The Category B reviewed unit standards have had changes to special notes, which typically include: updates to applicable legislation, NZS standards, and OSH approved codes of practice and guidelines; addition of further OSH approved codes of practice and guidelines; statements regarding the context for evidence; standardisation of style and definitions; a statement regarding use of personal protective equipment in the practically-oriented unit standards.
- The Category B reviewed unit standards have had comprehensive changes to elements, performance criteria, and their ranges, to reflect current good practice and a more standard style within the respective domains. All practical unit standards now contain an element covering post-operational procedures.
- In addition, as a result of the review, 18 new unit standards have been developed, as specified in the summary of main changes section at the end of this report.

Unit standards categorised as category C or D expire at the end of December 2008.

Impact on existing provider accreditations

Current Accreditation for			Accreditation extended to		
Nature of accreditation	Classification or Id	Level	Nature of accreditation	Id	Level
Domain	Agricultural Contracting	3	Standards	6283, 19562	4
Standards	19565	4	Standards	6283, 19562	4
	19566				
	19567				

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

In the following tables qualifications that contain unit standards and classifications in both categories are identified in the *Affected* table, with the items that generated the *Affected* status in **bold**. Standards shown in *italic* form part of a recommended component of a qualification but are not necessarily required for the award of the qualification.

The following InfraTrain qualifications are affected by the outcome of this review and will be revised/reviewed in 2007.

Qualification title	Classification or standard in the qualification
National Certificate in Agrichemical Application with strands in External Parasites, Total Vegetation Control, Aquatic, Broadacre, Brush, and Management [Ref: 0229]	6236, 6237, 6238, 6239, 6240 , 6241, 6242, 6243, 6244 , 6245, 6246, 6247, 6249, 6250, 6251, 6252, 6253 , 6255, 6258, 17232
National Certificate in Agricultural Contracting with strands in Crop Production, Land Drainage, Land Development, Hedge Trimming, Harvesting, Mowing, and Zero Tillage [Ref: 0230]	6236, 6255, 6256, 6257, 6258 , 6260, 6261, 6264, 6265 , 6766, 6267, 6268 , 6269, 6270, 6271, 6272, 6273, 6274 , 6275, 6267, 6277, 6278, 6279, 6280, 6283, 6285, 6286, 6287, 6288, 6289 , 6290, 19562, 19563, 19564, 19565, 19566, 19567, 19568, 19569, 19570, 19572, 19574, 19576, 19577, 19579
National Certificate in Civil Construction Works (Forestry Earthworks) [Ref: 1083]	6258
National Certificate in Civil Infrastructure (General Introductory Skills) [Ref: 1125]	Agrichemical Contracting
National Certificate in General Contracting (Training and Assessment) [Ref: 1061]	Agrichemical Contracting
National Certificate in Rural Contracting (Introductory Skills) [Ref: 0228]	6255, 6257, 6258 , 19577
National Certificate in Rural Contracting (Management) with strands in Agrichemical Contracting, and Agricultural Contracting [Ref: 1003]	6249, 6250, 6251, 6291, 6292, 6293 , 19561

The following qualification is also affected by the outcome of this review. The standard setting bodies (SSB) have been advised that the qualifications require revision.

Qualification title	Standard in the qualification	SSB Name
National Certificate in Compliance and Regulatory Control (Pest Plant Control) (Level 4) [Ref: 0529]	6243, 6244	Local Government Industry Training Organisation
National Certificate in Forestry (Establishment and Silviculture) (Level 3) [Ref: 0702]	6243 , 6245	Forest Industries Training and Education Council (FITEC)
National Certificate in Forestry (Forest Establishment) [Ref: 0829]	6244 , 6245	
National Certificate in Poultry Husbandry (Level 3) with strands in Egg Production, Poultry Hatchery, and Poultry Rearing [Ref: 1177]	6257	Agriculture Industry Training Organisation
National Certificate in Parks and Recreation (Level 3) with strands in Local Authority Park Ranger, and Parks Contractor [Ref: 1268]	6239, 6243 , 6244	Sport, Fitness and Recreation Industry Training Organisation Limited

Summary of main changes

All changes are in **bold**. The details of recommended alternative unit standards are in italics.

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 Rural Contracting
Domain Agrichemical Application

Id	Title	Level	Credit	Review Category
6236	Apply agrichemicals using a boom sprayer Operate a boom or band sprayer for agrichemical application	4	10	B
6237	Apply agrichemicals using a gun sprayer Operate a handgun sprayer for agrichemical application	3	6	B
6238	Apply agrichemicals using a knapsack motorised mist blower Operate a knapsack motorised mist blower for agrichemical application	3	2 6	B
6239	Select and apply agrichemicals for total vegetation control Prepare to apply, and apply, agrichemicals for total vegetation control	4	8 10	B
6240	Select and apply agrichemicals to control aquatic weeds Prepare to apply, and apply, agrichemicals to control aquatic weeds	4	8 10	B
6241	Apply agrichemicals using a wiper type applicator Use a wiper type applicator for agrichemical application	2	2	B
6242	Select and apply agrichemicals to crops by band spraying Prepare to apply, and apply, agrichemicals to crops by band spraying	4	8 10	B
6243	Dispose of surplus agrichemicals and empty containers	4	4	D
6244	Store agrichemicals	4	4	D
6245	Transport agrichemical concentrates by road Transport agrichemical concentrates by road and develop an emergency procedure guide	4	8	B
6246	Drive agrichemical application equipment carrying diluted agrichemicals on and off the road Drive application equipment carrying diluted agrichemicals and develop an emergency procedure guide	4	8	B

Id	Title	Level	Credit	Review Category
6247	Apply agrichemicals to control external parasites in livestock Prepare to apply, and apply, agrichemicals for external parasite control in livestock	4	20	B
6252	Select agrichemicals to control weeds in crops and pasture	4	8	C
6253	Select agrichemicals to control insect pests and disease organisms in crops and pasture	4	8	C
23619	Describe pests in crops and pasture and agrichemicals for their control	4	12	
17232	Determine application rates for agrichemicals	2 3	8 4	B
19573	Demonstrate knowledge of agrichemicals and their application	3	8	D
23617	Prepare to apply, and apply, agrichemicals to control brush weeds	3	6	New
23620	Prepare to apply, and apply, agrichemicals to control pests in crops or pasture	4	16	New

Domain Agricultural Contracting

Id	Title	Level	Credit	Review Category
6255	Operate a wheel tractor towing a heavy load Drive a wheel tractor towing a heavy load	3	3	B
6256	Check and drive a self-propelled agricultural contracting machine	2	3	D
6257	Operate a front end loader mounted on a tractor Operate a mounted front end loader unit for agricultural contracting	3	3 5	B
6258	Drive a wheel tractor on the road with attached implements	3	5	D
6260	Plan and install an open drain system for land drainage Plan and install an open drain system for rural land drainage	4	10	B
6261	Plan and install an underground drain system for land drainage Plan and install an underground drain system for rural land drainage	4	15	B
6264	Thin shelter belts Thin shelter belts and/or plantations	4	7 8	B
6265	Trim and limb shelter belts	4	7 10	B
6266	Apply fertiliser to pasture and crops	4	8	B
6267	Spread effluent on the land by tanker Spread effluent on the land by tanker and/or muck spreader	3	4 5	B

Id	Title	Level	Credit	Review Category
6268	Cultivate soil using a mould-board plough	4	15	C
6280	Use a swamp plough for land development	4	12	C
23638	Prepare for, and carry out, mould-board type ploughing	4	12	
6269	Cultivate soil using power-driven cultivators Cultivate soil using a power take off driven cultivator	4	8	B
6270	Cultivate soil using disc or tine cultivation equipment Cultivate soil using disc and/or tine cultivation equipment	4	8	B
6271	Prepare seedbed on ploughed land	4	8	D
6272	Prepare seedbed on cultivated land	4	6	D
6273	Demonstrate knowledge of crop production for agricultural contracting work	4	20 15	B
6274	Sow pasture crops	4	10	D
6275	Sow grain and seed crops Operate a grain and seed drill for agricultural contracting	4	10	B
6276	Sow root crops Operate a precision planter for agricultural contracting	4	10 12	B
6277	Harvest grain and seed crops Operate a combine harvester	4	15 20	B
6278	Harvest root crops Operate a root crop harvester	4	15 20	B
6279	Harvest oats and prepare chaff	4	8	D
6283	Carry out stump chipping Operate heavy chipping and mulching machinery for agricultural contracting	3 4	8 10	B
6284	Construct farm tracks and prepare on-farm building sites	4	17	B
6285	Prepare and harvest hay	3	8	D
6286	Handle and store hay Store hay and/or straw bales	3	5	B
6287	Prepare and harvest chopped silage	4	10	D
6288	Harvest baled silage	4	10	D
6289	Harvest maize silage	4	5	D
6290	Carry out landscape maintenance Carry out landscape maintenance for agricultural contracting	3	6	B
6292	Plan and price agricultural contracting work	6	10	C
6293	Manage the implementation of agricultural contracting work	6	12	C
23628	Plan, price, and manage agricultural contracting work	6	30	

Id	Title	Level	Credit	Review Category
19561	Manage health and safety in a rural contracting workplace Manage health and safety for an agricultural contracting workplace	5	6	B
19562	Operate a tracked tractor for agricultural contracting Operate a tracked tractor and equipment for agricultural contracting	3 4	15 20	B
19563	Plan and supervise the installation of an agricultural or horticultural water reticulation system Install an agricultural or horticultural water reticulation system	4 3	15 10	B
19564	Plan and supervise the installation of an agricultural or horticultural irrigation system Install an agricultural or horticultural irrigation system	4 3	15 10	B
19565 6283 and 19562	Use a roller crusher for land development <i>Operate heavy chipping and mulching machinery for agricultural contracting</i> <i>Operate a tracked tractor and equipment for agricultural contracting</i>	4 4 4	12 10 20	D B B
19566 6283 and 19562	Use a rootrake for land development <i>Operate heavy chipping and mulching machinery for agricultural contracting</i> <i>Operate a tracked tractor and equipment for agricultural contracting</i>	4 4 4	12 10 20	D B B
19567 6283 and 19562	Remove stumps for land development <i>Operate heavy chipping and mulching machinery for agricultural contracting</i> <i>Operate a tracked tractor and equipment for agricultural contracting</i>	4 4 4	12 10 20	D B B
19568	Cultivate soil using minimum tillage and sow seed	4	8	D
19569	Sow crops using zero tillage Sow seed for crops using zero tillage	4	10 20	B
19570	Operate a flat mower for agricultural contracting Operate a mower for agricultural contracting	4	10 12	B
19571	Operate a hydraulic arm mower on hedges and verges	4	12	B
19572	Prepare and harvest cereal silage	4	5	D
19574	Operate a four wheel drive tractor for agricultural contracting Operate a wheel tractor for agricultural contracting without supervision	3	15 10	B
19575	Operate a hydraulic excavator for agricultural contracting	4	20	B

Id	Title	Level	Credit	Review Category
19576	Maintain safety in mobile operations for agricultural contracting on rural roads Carry out multi-vehicle agricultural contracting operations on roads	3	6	B
19577	Perform calculations for agricultural contracting Perform measurements and calculations for agricultural contracting	2	2	B
19578	Describe and maintain health and safety in an agricultural contracting workplace	2	4	B
19579	Demonstrate knowledge of vehicles and loads in the agricultural contracting industry	3	4	D
23621	Demonstrate use of survey equipment for agricultural contracting land development	4	8	New
23622	Produce and confirm a plan to carry out a basic agricultural contracting operation	3	4	New
23623	Operate mulching plant for agricultural contracting	4	10	New
23624	Operate a mobile weighbridge for agricultural contracting	4	4	New
23625	Transport harvested product to storage	3	10	New
23626	Operate a loader wagon for silage harvesting	4	12	New
23629	Operate tedders and/or rakes	2	10	New
23630	Operate a conventional or large square baler for silage or hay	3	18	New
23631	Operate a round baler for silage or hay	3	18	New
23632	Operate machinery to handle bales for agricultural contracting	3	5	New
23633	Operate a bale wrapper	4	8	New
23634	Operate a forage harvester	4	25	New
23635	Demonstrate knowledge of anaerobic silage processes, and hand test forage crop prior to harvesting	3	5	New
23636	Operate stacking equipment and machinery for silage production	4	20	New
23637	Operate a telehandler for agricultural contracting	3	15	New
23639	Store bulk grain or seed delivered from harvest	3	7	New

Id	Domain	Title	Level	Credit	Review Category
6249	Agrichemical Contracting	Prepare a purchasing plan for agrichemical application equipment	5	5	C
6291	Agricultural Contracting	Prepare a purchasing plan for agricultural contracting equipment	5	9	C
23627	Agricultural Contracting	Plan the acquisition of plant for agricultural contracting	5	9	

Id	Domain	Title	Level	Credit	Review Category
6250	Agrichemical Contracting	Plan an agrichemical control programme for weeds, pests, or disease organisms	6	12	C
6251	Agrichemical Contracting	Manage the implementation of agrichemical application work	6	20	C
23618	Agrichemical Application	Plan, price, and manage an agrichemical application pest control programme	6	30	