

HORTICULTURE USE

2218 – New Zealand Certificate in Primary Industry Skills (Level 2)

Name		Employer	
Employee Number (if applicable)		Workplace/Site	
Enrolment Date		Duration	7 Months
Programme Title	PR-25637 - 2218 NZC v2 - Primary Industry Skills (Level 2) v4		

Qualification Requirements

You will be awarded this qualification once you have completed 40 credits (maximum 45 credits).

Maximum of 13 credits may be selected at Level 3

10 credits from the Compulsory section

30 credits from the Elective section

Compulsory

The following unit standards are required.

US	Unit Title	Version	Level	Credits	Select US & Resource
31656	Demonstrate knowledge of safe work practices in a primary industry operation	1	2	10	NZC Primary Industry Skills L2 LR
Compulsory Total					10

Elective

Select a minimum of 30 and a maximum of 35 credits from the following unit standards.

If selecting US 29499 please circle Hort Services (HS) or Production Hort (PH) in the **Select US & Resource** column.

US	Unit Title	Version	Level	Credits	Select US & Resource
Primary Industry Skills - General					
19136	Demonstrate the social requirements for family living in a primary industry context	3	1	2	
19138	Describe weather, climate and micro-climate characteristics, and interpret weather maps for a primary industry operation	3	2	4	
19143	Perform calculations in a primary industry context	3	2	3	
19145	Describe hydration, nutrition, and sleep in relation to physical well-being of primary industry workers	3	2	4	
29633	Demonstrate knowledge of the New Zealand primary sectors and industries	2	2	4	
31666	Apply knowledge of seasonal employment requirements and workplace expectations in a primary industry context	1	2	5	
Agrichemicals					
21560	Explain agrichemical use for primary sector applications	3	3	6	
21561	Use, maintain, and store agrichemical personal protective equipment	3	2	2	

US	Unit Title	Version	Level	Credits	Select US & Resource
27213	Identify and interpret agrichemical product information, and describe safety procedures when working with agrichemicals	2	2	5	
27215	Prepare to apply and apply agrichemicals using hand held equipment	3	2	5	
27216	Prepare to apply and apply agrichemicals using motorised equipment	4	3	8	
Apiculture					
30782	Feed bees in beehives under close supervision	1	2	6	
30783	Open and close beehives under close supervision	1	2	5	
30791	Demonstrate understanding of honey bee physical features, castes, bee stings and beehive health	1	2	5	
30792	Carry out honey harvesting	2	3	3	
30794	Demonstrate understanding of managing bee behaviour, and assist with beehive manipulations, under close supervision	1	2	7	
30796	Demonstrate understanding of the process, role and significance of plant pollination by bees	1	2	3	
30797	Demonstrate understanding of beekeeping equipment and honey extraction, and use equipment for routine operations	1	2	4	
Fencing					
00561	Install, dismantle, and store temporary electric fences	5	2	2	
24822	Install wooden battens for fencing	2	2	4	
24832	Open and draw out a coil of wire, tie knots, join wire, and prepare wire for transport and storage	3	2	5	
24833	Identify and maintain fencing tools and equipment, and identify fencing construction materials and wire types	3	2	3	
24834	Replace a broken post and repair a broken wire in fences	2	2	5	
24835	Identify the location of a fault in electric fences, and replace electric fence components	2	2	3	
24836	Describe nonelectric fences, fence support materials, and safe practices in fencing	3	2	2	
Horticulture					
00791	Build and maintain support structures for fruit crops	6	3	5	
00829	Demonstrate knowledge of plant nomenclature	5	2	5	
02765	Plant trees or shrubs	7	2	5	
10952	Lift, prepare, pack, transport, and store bare root tree stocks	5	2	5	
17261	Carry out groundperson's duties in an arboriculture situation	6	3	4	
20570	Describe nursery growing media and soils	4	2	5	
21027	Plant and maintain displays of bedding plants	5	2	10	
21212	Harvest a horticulture crop by hand	4	2	5	
21556	Control weeds under supervision	3	2	2	
21959	Identify a grave site and undertake a probe	2	2	5	
21960	Determine grave digging requirements and prepare for digging	2	2	5	
21963	Backfill and make good graves	2	3	5	
22174	Demonstrate knowledge of soils and fertilisers	2	2	5	
22188	Demonstrate knowledge of irrigation systems used in horticulture	2	2	5	

US	Unit Title	Version	Level	Credits	Select US & Resource	
22191	Demonstrate knowledge of factors which influence plant growth	2	2	5		
23355	Grade horticultural produce to pre-determined criteria	3	3	10		
23356	Prepare packaging for horticultural produce	3	2	5		
23359	Maintain hygiene to ensure food safety in a horticulture workplace	3	2	5		
23781	Grow and pot up plants from stem cuttings	2	2	5		
24615	Check and report on crop health and stages of development	3	2	5		
27707	Describe plant propagation by budding, grafting, tissue culture and layering	2	2	5		
27708	Describe sexual and asexual plant propagation and propagation methods	2	2	6		
29492	Care for a nursery crop	3	2	5		
29493	Carry out basic canopy maintenance of trees or vines	2	2	5		
29494	Clean down post-harvest equipment ready for changeovers	2	2	5		
29495	Control weeds by physical means using appropriate equipment	2	2	2		
29497	Hand prune fruit trees	2	2	8		
29498	Hand thin buds, flowers, or fruit	2	2	3		
29499	Identify a range of plants by botanical and common name, and their basic features	2	2	2	HS	PH
29500	Pack graded horticultural produce and report problems	2	2	5		
29502	Plant out by hand	2	2	5		
29503	Prepare and dispatch pre-graded nursery plants	2	2	5		
29504	Prick-out seedlings or rooted cuttings, transplant, and pot-on young plants into containers	2	2	4		
29505	Propagate plant material by division	2	2	3		
29506	Prepare and propagate plants by cuttings	2	2	5		
29507	Pull out the crop, clean the greenhouse for crop change, and set up the new crop	2	2	5		
29508	Sow seeds and monitor germination and emergence	2	2	5		
29509	Stack and move produce manually in a coolstore or other storage facility	2	2	5		
29510	Stack and secure packed horticultural produce on pallets	2	2	5		
29511	Train and hand prune brambles	2	2	5		
29512	Train and hand prune mature vines	2	2	8		
29513	Train and hand prune young vines	2	2	5		
29658	Assist with general arboriculture duties	2	2	10		
29659	Assist with installation of drainage for landscape work	2	2	5		
29660	Assist with preparation of manual grave digging, carry out and reinstate the grave site	2	2	10		
29661	Assist with site preparation and laying hard surfaces for hard landscape work	2	2	5		
29662	Assist with surface finishing of timber, masonry, concrete or metal landscape structures	2	2	3		
29663	Care for trees and shrubs	2	2	5		
29664	Carry out grave aftercare	2	2	5		
29665	Assist with clearing a site in preparation for landscape work	2	2	5		

US	Unit Title	Version	Level	Credits	Select US & Resource
29666	Establish amenity turf areas	2	2	5	
29667	Maintain established amenity turf	2	2	5	
29668	Assist with preparation of mortar or concrete on-site for hard landscape work	2	2	2	
29826	Create and maintain garden retail displays	2	3	5	
30251	Describe pruning and training, and prune and train trees and shrubs	2	3	5	
31186	Demonstrate knowledge of Codes of Practice and guidelines for arboriculture	3	3	2	
31668	Assist with horticulture activities which support crop productivity	1	2	2	
31669	Assist with routine activities when undertaking development work in a horticulture operation	1	2	3	
Te Whakamahi Whenua					
15975	Demonstrate knowledge of traditional Maori ways of managing insect pests and plant diseases	6	2	2	
15980	Demonstrate knowledge of te whanau marama	6	2	2	
25469	Explain crop propagation in accordance with tikanga and crop requirements	5	2	6	
25471	Explain the cultivation of crops in accordance with tikanga and crop requirements	5	2	6	
25474	Explain the harvesting of crops in accordance with tikanga and crop requirements	5	2	6	
25476	Explain crop storage practices in accordance with tikanga and crop requirements	5	2	6	
Vehicles, Machinery, Equipment & Infrastructure					
00004	Maintain hand tools and service small engines used in a primary industry operation	6	2	5	
01667	Describe, select, operate and maintain powered amenity machinery and equipment	8	3	5	
06917	Demonstrate basic chainsaw operation in a non-forestry production environment	10	2	10	
19046	Service, repair and maintain primary industry machinery	4	3	6	
19048	Apply nutrients using mounted or trailed equipment	5	3	6	
19061	Cultivate with individual tractor-drawn implements	4	3	4	
19931	Install and maintain grapevine trellis	3	3	10	
20533	Select and prepare specialist mower types, mow turf areas, and complete post-mowing requirements	5	3	10	
21218	Operate and maintain powered orchard machinery	4	3	5	
24540	Maintain and use a petrol-powered brushcutter	3	2	2	
25399	Prepare to use, use, and remove a brushwood chipper	4	3	3	
25401	Prepare to use, use, and remove a stump grinder in an arboriculture situation	2	3	3	
28896	Maintain infrastructure in a primary industry workplace	2	3	5	
29501	Operate a pipe rail trolley for greenhouse work	2	3	5	
29669	Use small machinery to carry out a range of routine horticulture tasks	2	2	5	
29839	Prepare, operate and maintain specialist nursery machinery	2	3	5	

US	Unit Title	Version	Level	Credits	Select US & Resource
31657	Describe water supply system components and tools, and assemble a simple water supply system	1	2	3	
31667	Assist with the routine maintenance of an irrigation system	1	2	2	
Elective Total					

Credit Summary	Selected
Total Credits from Compulsory	10
(Min 30 and Max 35 credits) Total Credits from Elective/s	
(Min 40 credits and Max 45 credits) Total Qualification Credits	

Resource Order Information

Learner Resource Order

- LR contains all Compulsory unit standards. Individual Elective unit standards must be selected from the Matrix to create Learner Resource folder.

Learner Resource Order Delivery Details		
Send resource order to:	Selected	Name
Learner		
Workplace		
Other		
If Other enter Send to and Address details here:		

Assessor/Verifier Resource Order

- AVR contains Assessor Verifier Guides for all Compulsory unit standards. Individual Elective unit standards must be selected to create AVR folder.

Assessor/Verifier Resource Order Delivery Details		
Send resource order to:	Selected	Name
Assessor/Verifier		
Workplace		
Other		
If Other enter Send to and Address details here:		

Resource ID	Resource Name	Select
RES-24053	NZC Primary Industry Skills L2 AVR (Includes all Compulsory unit standards)	
RES-22154	00004 v6 - Maintain hand tools and service small engines used in a primary industry operation L2 VAG	
RES-22469	00561 v5 - Install, dismantle, and store temporary electric fences L2 VAG	
RES-22304	00791 v6 - Build and maintain support structures for fruit crops L3 VAG	
RES-22312	00829 v5 - Demonstrate knowledge of plant nomenclature L2 AVG	
RES-23594	01667 v8 - Describe, select, operate and maintain powered amenity machinery and equipment L3 AVG	
RES-23941	02765 v7 - Plant trees or shrubs L2 AVG	

Resource ID	Resource Name	Select
RES-24253	06917 v10 - Demonstrate basic chainsaw operation in a non-forestry production environment L2 AVG	
RES-23964	10952 v5 - Lift, prepare, pack, transport, and store bare root tree stocks L2 AVG	
RES-23491	15975 v6 - Demonstrate knowledge of traditional Māori ways of managing insect pests and plant diseases L2 AVG	
RES-23493	15980 v6 - Demonstrate knowledge of te whānau marama L2 AVG	
RES-23006	17261 v6 - Carry out groundperson's duties in an arboriculture situation L3 AVG	
RES-21457	19046 v4 - Service, repair and maintain primary industry machinery L3 VAG	
RES-24073	19048 v5 - Apply nutrients using mounted or trailed equipment L3 AVG	
RES-24074	19061 v4 - Cultivate with individual tractor-drawn implements L3 VAG	
RES-24075	19136 v3 - Demonstrate the social requirements for family living in a primary industry context L1 AVG	
RES-23274	19138 v3 - Describe weather, climate and micro-climate characteristics, and interpret weather maps for a primary industry operation L2 AVG	
RES-24076	19143 v3 - Perform calculations in a primary industry context L2 AVG	
RES-22241	19145 v3 - Describe hydration, nutrition, and sleep in relation to physical well-being of primary industry workers L2 VAG	
RES-22268	19931 v3 - Install and maintain grapevine trellis L3 VAG	
RES-23595	20533 v5 - Select and prepare specialist mower types, mow turf areas, and complete post-mowing requirements L3 AVG	
RES-23943	20570 v4 - Describe nursery growing media and soils L2 AVG	
RES-23945	21027 v5 - Plant and maintain displays of bedding plants L2 AVG	
RES-23454	21212 v4 - Harvest a horticulture crop by hand L2 AVG	
RES-23947	21218 v4 - Operate and maintain powered orchard machinery L3 AVG	
RES-22276	21556 v3 - Control weeds under supervision L2 VAG	
RES-21496	21560 v3 - Explain agrichemical use for primary sector applications L3 AVG	
RES-22300	21561 v3 - Use, maintain, and store agrichemical personal protective equipment L2 AVG	
RES-24022	21959 v2 - Identify a grave site and undertake a probe L2 AVG	
RES-24023	21960 v2 - Determine grave digging requirements and prepare for digging L2 AVG	
RES-23755	21963 v2 - Backfill and make good graves L3 AVG	
RES-22570	22174 v2 - Demonstrate knowledge of soils and fertilisers L2 VAG	
RES-24077	22188 v2 - Demonstrate knowledge of irrigation systems used in horticulture L2 AVG	
RES-22769	22191 v2 - Demonstrate knowledge of factors which influence plant growth L2 VAG	
RES-23375	23355 v3 - Grade horticultural produce to pre-determined criteria L3 AVG	
RES-23456	23356 v3 - Prepare packaging for horticultural produce L2 AVG	
RES-23376	23359 v3 - Maintain hygiene to ensure food safety in a horticulture workplace L2 AVG	
RES-22770	23781 v2 - Grow and pot up plants from stem cuttings L2 AVG	
RES-24078	24540 v3 - Maintain and use a petrol-powered brushcutter L2 AVG	
RES-23287	24615 v3 - Check and report on crop health and stages of development L2 AVG	
RES-22284	24822 v2 - Install wooden battens for fencing L2 VAG	
RES-24079	24832 v3 - Open and draw out a coil of wire, tie knots, join wire, and prepare wire for transport and storage L2 AVG	
RES-24080	24833 v3 - Identify and maintain fencing tools and equipment, and identify fencing construction materials and wire types L2 AVG	
RES-22471	24834 v2 - Replace a broken post and repair a broken wire in fences L2 VAG	
RES-24081	24835 v2 - Identify the location of a fault in electric fences, and replace electric fence components L2 AVG	

Resource ID	Resource Name	Select
RES-22473	24836 v3 - Describe nonelectric fences, fence support materials, and safe practices in fencing L2 VAG	
RES-23008	25399 v4 - Prepare to use, use, and remove a brushwood chipper L3 AVG	
RES-22603	25401 v2 - Prepare to use, use, and remove a stump grinder in an arboriculture situation L3 VAG	
RES-23495	25469 v5 - Explain crop propagation in accordance with tikanga and crop requirements L2 AVG	
RES-23497	25471 v5 - Explain the cultivation of crops in accordance with tikanga and crop requirements L2 AVG	
RES-23499	25474 v5 - Explain the harvesting of crops in accordance with tikanga and crop requirements L2 AVG	
RES-23501	25476 v5 - Explain crop storage practices in accordance with tikanga and crop requirements L2 AVG	
RES-23391	27213 v2 - Identify and interpret agrichemical product information, and describe safety procedures when working with agrichemicals L2 AVG	
RES-22286	27215 v3 - Prepare to apply and apply agrichemicals using hand held equipment L2 VAG	
RES-23276	27216 v4 - Prepare to apply and apply agrichemicals using motorised equipment L3 AVG	
RES-24083	27707 v2 - Describe plant propagation by budding, grafting, tissue culture and layering L2 AVG	
RES-24084	27708 v2 - Describe sexual and asexual plant propagation and propagation methods L2 AVG	
RES-22659	28896 v2 - Maintain infrastructure in a primary industry workplace L3 AVG	
RES-23965	29297 v2 - Operate and maintain a chainsaw in a land-based context L3 AVG	
RES-24085	29492 v3 - Care for a nursery crop L2 AVG	
RES-23458	29493 v2 - Carry out basic canopy maintenance of trees or vines L2 AVG	
RES-23377	29494 v2 - Clean down post-harvest equipment ready for changeovers L2 AVG	
RES-23487	29495 v2 - Control weeds by physical means using appropriate equipment L2 AVG	
RES-23460	29497 v2 - Hand prune fruit trees L2 AVG	
RES-23462	29498 v2 - Hand thin buds, flowers, or fruit L2 AVG	
RES-23465	29499 v2 - Identify a range of plants by botanical and common name, and their basic features L2 AVG	
RES-23378	29500 v2 - Pack graded horticultural produce and report problems L2 AVG	
RES-24047	29501 v2 - Operate a pipe rail trolley for greenhouse work L3 AVG	
RES-23467	29502 v2 - Plant out by hand L2 AVG	
RES-24086	29503 v2 - Prepare and dispatch pre-graded nursery plants L2 AVG	
RES-23469	29504 v2 - Prick-out seedlings or rooted cuttings, transplant, and pot-on young plants into containers L2 AVG	
RES-23471	29505 v2 - Propagate plant material by division L2 AVG	
RES-23473	29506 v2 - Prepare and propagate plants by cuttings L2 AVG	
RES-23475	29507 v2 - Pull out the crop, clean the greenhouse for crop change, and set up the new crop L2 AVG	
RES-23477	29508 v2 - Sow seeds and monitor germination and emergence L2 AVG	
RES-23479	29509 v2 - Stack and move produce manually in a coolstore or other storage facility L2 AVG	
RES-23481	29510 v2 - Stack and secure packed horticultural produce on pallets L2 AVG	
RES-24087	29511 v2 - Train and hand prune brambles L2 AVG	
RES-23483	29512 v2 - Train and hand prune mature vines L2 AVG	
RES-23485	29513 v2 - Train and hand prune young vines L2 AVG	
RES-24088	29633 v2 - Demonstrate knowledge of the New Zealand primary sectors and industries L2 AVG	

Resource ID	Resource Name	Select
RES-23489	29658 v2 - Assist with general arboriculture duties L2 AVG	
RES-24089	29659 v2 - Assist with installation of drainage for landscape work L2 AVG	
RES-23651	29660 v2 - Assist with preparation of manual grave digging, carry out and reinstate the grave site L2 AVG	
RES-24090	29661 v2 - Assist with site preparation and laying hard surfaces for hard landscape work L2 AVG	
RES-24091	29662 v2 - Assist with surface finishing of timber, masonry, concrete, or metal landscape structures L2 AVG	
RES-24092	29663 v2 - Care for trees and shrubs L2 AVG	
RES-23757	29664 v2 - Carry out grave aftercare L2 AVG	
RES-24093	29665 v2 - Assist with clearing a site in preparation for landscape work L2 AVG	
RES-23949	29666 v2 - Establish amenity turf areas L2 AVG	
RES-23951	29667 v2 - Maintain established amenity turf L2 AVG	
RES-24094	29668 v2 - Assist with preparation of mortar or concrete on-site for hard landscape work L2 AVG	
RES-23953	29669 v2 - Use small machinery to carry out a range of routine horticulture tasks L2 AVG	
RES-24095	29826 v2 - Create and maintain garden retail displays L3 AVG	
RES-23631	29839 v2 - Prepare, operate and maintain specialist nursery machinery L3 AVG	
RES-23653	30251 v2 - Describe pruning and training, and prune and train trees and shrubs L3 AVG	
RES-22489	30792 v2 - Carry out honey harvesting L3 VAG	
RES-23014	31186 v3 - Demonstrate knowledge of Codes of Practice and guidelines for arboriculture L3 AVG	
RES-22150	31656 v1 - Demonstrate knowledge of safe work practices in a primary industry operation L2 AVG	
RES-22156	31657 v1 - Describe water supply system components and tools, and assemble a simple water supply system L2 VAG	
RES-22310	31666 v1 - Apply knowledge of seasonal employment requirements and workplace expectations in a primary industry context L2 VAG	
RES-22298	31667 v1 - Assist with the routine maintenance of an irrigation system L2 VAG	
RES-22306	31668 v1 - Assist with horticulture activities which support crop productivity L2 VAG	
RES-22308	31669 v1 - Assist with routine activities when undertaking development work in a horticulture operation L2 VAG	
RES-21366	NZC Apiculture L2 VG (includes US 30782/30783/30791/30794/30796/30797) US 30792 is not included. If selecting US 30792 please tick RES-22489.	