

New Zealand Apprenticeship Horticulture Indoor Crop Production (Level 3 & 4) (Complex)

2678 New Zealand Certificate in Horticulture (Level 3) Indoor Crop Production

2676 New Zealand Certificate in Horticulture Production (Level 4) Indoor Crop Production

Name		Employer	
Employee Number (if applicable)		Workplace/Site	
Enrolment Date		Duration	31 Months
Programme Title	PR-45776 - NZA - Horticulture (Level 4) (Indoor Crop Production) (Complex) v5		
Training Plan		Activate Now	Order Resources Now
NZC – Horticulture (Level 3) Indoor Crop Production (75 Credits)		☐	☐
NZC – Horticulture Production (Level 4) Indoor Crop Production (118 Credits)		☐	☐

New Zealand Apprenticeship Requirements

You will be awarded this New Zealand Apprenticeship (NZA) once you have gained the required 193 credits from the unit standard and programme rules for the two qualifications that make up the NZA.

Qualification Requirements

2678 New Zealand Certificate in Horticulture (Level 3) Indoor Crop Production

You will be awarded this qualification once you have gained 75 credits

29 credits come from the Compulsory Section

46 credits come from the Elective Section

A maximum of 80 credits can be selected for this programme

2676 New Zealand Certificate in Horticulture Production (Level 4) Indoor Crop Production

You will be awarded this qualification once you have gained 118 credits

All credits come from the Compulsory Section

Tutorial Days

Off-job training unit standards are noted with the number of days in the tutorial day/s column.

Level 3 – Compulsory

The following unit standards are required.

US	Unit Title	Tutorial Day/s	Version	Level	Credits	Select US & Resource
11097	Listen actively to gain information in an interactive situation	1	6	3	3	NZC Horticulture L3 Indoor Crop Production LR
28650	Work in a team to achieve designated tasks in a primary industry operation		3	3	3	
17593	Apply safe work practices in the workplace		6	2	4	
27208	Identify and describe plant pests, diseases, and disorders, and methods of prevention and control	1	3	3	8	
27210	Identify and describe weeds, and methods of prevention and control	1	2	3	6	
29829	Demonstrate knowledge of plant structure, functions and processes	1	2	3	5	
Compulsory Total					29	

Level 3 – Elective

46 Credits Required - **Follow the rules in grey shading** to make unit standard selection meet programme completion rules.

US	Unit Title	Tutorial Day/s	Version	Level	Credits	Select US & Resource
Select a minimum of 46 credits from the following unit standards						
00831	Train and prune vine crops		6	3	5	
19138	Describe weather, climate and micro-climate characteristics, and interpret weather maps for a primary industry operation		3	2	4	
21560	Explain agrichemical use for primary sector applications		3	3	6	
21561	Use, maintain, and store agrichemical personal protective equipment		3	2	2	
22179	Maintain a hydroponic system and monitor plants in the system		3	3	5	
22186	Prepare equipment, and harvest a horticulture crop by hand		3	3	5	
22189	Describe irrigation filters, and repair and maintain an irrigation system used in horticulture		4	3	5	
23355	Grade horticultural produce to pre-determined criteria		3	3	10	
23359	Maintain hygiene to ensure food safety in a horticulture workplace		3	2	5	
27207	Describe and carry out monitoring of plant pests and diseases		3	3	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	
27217	Describe key features, principles and benefits of integrated pest management in the primary sector		2	3	5	
29501	Operate a pipe rail trolley for greenhouse work		2	3	5	
29824	Carry out maturity testing of crop samples		2	3	5	
29827	Demonstrate knowledge of agrichemicals, and safety when using agrichemicals		2	3	5	
29831	Describe the functions of greenhouse environmental control methods for optimising plant growth		2	3	6	
29832	Describe workflow management in a horticulture operation		2	3	5	
29838	Plant and care for plants		3	3	5	
29840	Pull out the crop and clean the greenhouse for crop change, and set up the new crop, support and irrigation		2	3	5	
29841	Recognise plant pests, diseases, and disorders of a horticulture crop		2	3	5	
30073	Carry out manual thinning of tree or vine crops		2	3	5	
Elective Total						

Credit Summary	Selected
Total Credits from Compulsory	29
(Min 46 Credits) Total Credits from Elective/s	
(Max 80 credits) Total Qualification Credits	

Note: Learner must have a minimum of 40 Level 3 credits from the Compulsory and Elective sections.

Level 4 - Compulsory

The following unit standards are required.

US	Unit Title	Tutorial Day/s	Version	Level	Credits	Select US & Resource
01171	Supervise and provide instruction to staff working in a primary industry operation	1	10	4	10	NZC Horticulture L4 Indoor Crop Production LR
29885	Describe plant biology in a production horticulture context	1	2	4	5	
29886	Describe quality standards and regulatory requirements for a horticulture crop	1	2	4	6	
29887	Demonstrate knowledge of greenhouse environmental control systems to maintain optimal conditions for plant growth		2	4	6	
29889	Implement and monitor a crop harvest plan in a horticulture workplace		2	4	10	
29890	Implement and monitor a horticulture crop protection plan		2	4	20	
29891	Demonstrate knowledge of environmental risk management and minimise negative environmental effects for horticulture	1	2	4	15	
29894	Implement and monitor indoor crop production activities		2	4	20	
29900	Implement and monitor plant management techniques in a production horticulture workplace to optimise production		2	4	10	
29901	Monitor, record, and report on production goals in a horticulture workplace		2	4	4	
30594	Use information technology to inform primary industry management decisions		2	4	7	
32903	Demonstrate and apply knowledge of water conservation and use in a horticulture operation		1	4	5	
Total Qualification Credits					118	

Resource Order Information

Level 3 - 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:		

Level 3 - Assessor/Verifier Resource Order

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

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-23728	NZC Horticulture L3 Indoor Crop Production AVR (Includes all Compulsory unit standards)	
RES-22643	00831 v6 - Train and prune vine crops L3 AVG	
RES-23274	19138 v3 - Describe weather, climate and micro-climate characteristics, and interpret weather maps for a primary industry operation L2 AVG	
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-23733	22179 v3 - Maintain a hydroponic system and monitor plants in the system L3 AVG	
RES-22645	22186 v3 - Prepare equipment, and harvest a horticulture crop by hand L3 AVG	
RES-22873	22189 v4 - Describe irrigation filters, and repair and maintain an irrigation system used in horticulture L3 AVG	
RES-23375	23355 v3 - Grade horticultural produce to pre-determined criteria L3 AVG	
RES-23376	23359 v3 - Maintain hygiene to ensure food safety in a horticulture workplace L2 AVG	
RES-22871	27207 v3 - Describe and carry out monitoring of plant pests and diseases L3 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-23275	27217 v2 - Describe key features, principles and benefits of integrated pest management in the primary sector L3 AVG	
RES-24047	29501 v2 - Operate a pipe rail trolley for greenhouse work L3 AVG	
RES-22649	29824 v2 - Carry out maturity testing of crop samples L3 AVG	
RES-23277	29827 v2 - Demonstrate knowledge of agrichemicals, and safety when using agrichemicals L3 AVG	
RES-23734	29831 v2 - Describe the functions of greenhouse environmental control methods for optimising plant growth L3 AVG	
RES-23381	29832 v2 - Describe workflow management in a horticulture operation L3 AVG	
RES-23273	29838 v3 - Plant and care for plants L3 AVG	

Resource ID	Resource Name	Select
RES-23735	29840 v2 - Pull out the crop and clean the greenhouse for crop change, and set up the new crop, support and irrigation L3 AVG	
RES-23384	29841 v2 - Recognise plant pests, diseases, and disorders of a horticulture crop L3 AVG	
RES-22653	30073 v2 - Carry out manual thinning of tree or vine crops L3 AVG	

Level 4 - Learner Resource Order

- LR contains all Compulsory unit standards.

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

Level 4 - Assessor/Verifier Resource Order

- AVR contains Assessor Verifier Guides for all Compulsory unit standards.

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-23361	NZC Horticulture L4 Indoor Crop Production AVR <i>(Includes all Compulsory unit standards)</i>	
RES-23108	01171 v10 - Supervise and provide instruction to staff working in a primary industry operation L4 AVG	
RES-23175	29885 v2 - Describe plant biology in a production horticulture context L4 AVG	
RES-23156	29886 v2 - Describe quality standards and regulatory requirements for a horticulture crop L4 AVG	
RES-23300	29887 v2 - Demonstrate knowledge of greenhouse environmental control systems to maintain optimal conditions for plant growth L4 AVG	
RES-23302	29889 v2 - Implement and monitor a crop harvest plan in a horticulture workplace L4 AVG	
RES-23162	29890 v2 - Implement and monitor a horticulture crop protection plan L4 AVG	
RES-23304	29891 v2 - Demonstrate knowledge of environmental risk management and minimise negative environmental effects for horticulture L4 AVG	
RES-23357	29894 v2 - Implement and monitor indoor crop production activities L4 AVG	
RES-23177	29900 v2 - Implement and monitor plant management techniques in a production horticulture workplace to optimise production L4 AVG	
RES-23158	29901 v2 - Monitor, record, and report on production goals in a horticulture workplace L4 AVG	
RES-23359	30594 v2 - Use information technology to inform primary industry management decisions L4 AVG	
RES-23306	32903 v1 - Demonstrate and apply knowledge of water conservation and use in a horticulture operation L4 AVG	