

19137: Describe the opportunities, advantages, and disadvantages of primary industry employment



Level

1

Learner Guide

Unit standard 19137 v3	Level 1	Credits 2
Demonstrate knowledge of safe work practices in a primary sector context		

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13 October 2020

Version 1

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Introduction

Learning outcome

To successfully complete this unit standard you will show that you are able to:

- describe career and training opportunities in the primary industry in New Zealand
- describe personal advantages and disadvantages of primary industry employment.

If you require the Learner Guide to be printed on coloured paper, contact Primary ITO on 0800 20 80 20 and talk to our Learning Support Team.

Glossary

You may find new words (highlighted in **bold black**) as you read through this Learner Guide. The meanings of these words are in the glossary at the back.

Symbols

You'll also see symbols which we've used to help you know what's going on, for example:



Alert: you must be aware of this.



Activity: a written activity for you to do.



Search online: refer to online references for information on this topic.



Top tip: key information and useful tips.



Question: a question for you to think about.

Assessment

You will find a separate Assessment booklet for this unit standard. You will need to work through the activities in the Assessment.

Your Verifier will fill in the Verifier declaration once they are satisfied you have achieved the learning outcomes for the unit standard. Your Verifier may be your Supervisor or Workplace Trainer.

The Assessor will check all declarations and fill in the final sign-off once final competency is achieved. The Assessor may be your Training Adviser or Workplace Assessor.

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Career and training opportunities in the primary industry in New Zealand

This section covers:

- the New Zealand Qualifications Framework (NZQF) based qualifications in terms of their principles
- major career pathways for a primary industry
- entry requirement for specific career pathways
- relevant industry qualifications in terms of name, compositions and potential providers.

New Zealand Qualifications Framework (NZQF)

The purpose of the NZQF is to help people get a job and do it well.

In order to do a job well you must have certain skills, and in some cases you must have certain qualifications. This is the reason why people study and train.

The NZQF makes sure that training providers (for example The University of Auckland) teach courses that are of a high quality and are relevant to the industry.

NZQF make sure that all the qualifications in New Zealand are fair and appropriate to the people studying or training them. They do this by following **four principles**.

They are:

1. Needs based
2. Focused on outcomes
3. Flexibility
4. Trust and accountability

1. Needs based

This means that the qualifications are based on the needs of the people studying it. For example, someone may need to study agriculture in order to successfully get a job as a farm manager.

It is also how **useful, relevant** and **valuable** the qualification is, in relation to the industry, the workforce, and the community.



2. Focused on outcomes

This means that it is obvious what the outcome will be once you have completed the course and what job people can get afterwards.

For example, an outcome in an agriculture course may be ‘the ability to maintain and care for livestock’.

It also helps people understand further education and employment pathways.



3. Flexibility

This means people can study and train in either the classroom or in a workplace location.

For example, if you are agriculture, it is possible that you will study and train in both a classroom environment and on the farm.

It also means that there is a range of different education institutes located all over New Zealand offering different courses. This gives you flexibility in choice.



4. Trust and accountability

This means that the courses are built using a team of experts. Such as the government, people who have trained in that industry for years, and education providers.




Qualification types

All qualifications that are part of the NZQF are at a certain level, they range from level 1 -10.

Level 1-4 courses are the foundation level courses that prepare learners for entry level jobs. Most courses that are at level 5 and onwards have entry requirements. These are usually a pass certificate in the previous level or equivalent work experience.

The table below represents the structure of **NZQF**, its **levels** and **qualification types**.



Level	Qualification type
10	Doctoral Degree
9	Master's Degree
8	Postgraduate Diplomas
7	Bachelor's Degree, Graduate Diploma
6	Diploma
5	
4	Certificate
3	
2	
1	

Senior level

Mid-level

Entry level

Career pathways for the primary industry

For the purpose of this learner guide, we will explain career pathways in the primary industry of agriculture, horticulture, forestry and fishing in New Zealand.

The table below explains the meaning of words used in this workbook.

Term	Definition
Agriculture	The practice of farming, including the cultivation of soil for growing crops and rearing of animals to produce food and materials.
Horticulture	The science or art of cultivating fruits, vegetables, flowers, or ornamental plants. The origin of the term lies in two Latin words: hortus (meaning “garden”) and cultus (which means “tilling”).
Forestry	The practice of planting, managing and caring for forests.
Fishing	The practice of catching fish and/or working in the fishing industry.

A career pathway is a plan for your career which means you work on gaining skills to move to higher level and better paid jobs.

Below is an example of a career pathway.

Career pathway	Description
Education	Education or training that teaches you the basics to prepare yourself for a job in that industry. This training and education can also be considered as entry requirements for some entry level jobs.
Entry level job	First job, beginner level, few responsibilities, modest salary.
Mid-level job	Once you have gained a few years work experience you would progress to a middle level job. These jobs have more responsibilities with a higher salary than an entry level job.
Senior level job	A more senior level job, usually a managerial job with more responsibilities. Senior level jobs are usually responsible for a team of people and have a higher salary than mid-level jobs.



Search online for jobs through the website

www.seek.co.nz

An example of a career path in **agriculture** is in the table below.

Career pathway	Description
Education	Name: Vocational pathways in primary industry skills Level: 2 Institute: Vision College
Entry level job	Job name: Poultry Worker Responsibilities: <ul style="list-style-type: none"> • observation of bird activity • bird handling • record keeping and reporting.
Mid-level job	Job name: Assistant Farm Manager Responsibilities: <ul style="list-style-type: none"> • assisting in the day-to-day activity and schedule tasks that need to be undertaken • assisting to recruit, train, mentor, and monitor staff as needed.
Senior level job	Job name: Farm Manager Responsibilities: <ul style="list-style-type: none"> • keep compliance by using Ag Record and Farm IQ • communicate and with agents, contractors, clients, overseer and managing directors on the management and production of the farm.



Search online for entry level courses in agriculture industry in New Zealand.

An example of a career path in **horticulture** is in the table below.

Career pathway	Description
Education	<p>Name: NZ Certificate in Horticulture</p> <p>Level: level 3</p> <p>Institute: Open Polytechnic</p>
Entry level job	<p>Job name: Nursery worker</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> • potting and care of plants • operating the automated potting equipment.
Mid-level job	<p>Job name: Horticulturist</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> • spraying and replanting large areas of swale • keep records of plant cultivation.
Senior level job	<p>Job name: Orchard Manager</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> • ensure orchard operations are within budget to specification • irrigation management and frost protection • operation of machinery • comply with Health and Safety regulations.



Search online for entry level courses in **horticulture** industry in New Zealand.

An example of a career path is in **forestry** in the table below.

Career pathway	Description
Education	Name: New Zealand Certificate in Forest Harvesting Operations Level: level 3 Institute: Toi-ohomai Institute of Technology
Entry level job	Job name: Forestry Harvesting Worker Responsibilities: <ul style="list-style-type: none"> • plating seedings in the forest • cutting down of any diseased trees • tap trees for syrup production.
Mid-level job	Job name: Forester Responsibilities: <ul style="list-style-type: none"> • analysing data and assisting with the development and control of budgets • roading and land preparation • liaising with the forest owners and local Iwi to improve projects.
Senior level job	Job name: Senior Forest Manager Responsibilities: <ul style="list-style-type: none"> • manage forestry contractors carrying out forest operations • manage the business and financial side of forest operations • market and negotiate log sales to domestic and export log processors.



Search online for entry level courses in **forestry** industry in New Zealand.

An example of a career path is in **fishing** in the table below.

Career pathway	Description
Education	<p>Name: Standard Training Certification and Watchkeeping (STCW)</p> <p>Level: Basic training</p> <p>Institute: Manukau Institute of Technology.</p>
Entry level job	<p>Job name: Fishing Crew</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> • assist on the deck of the boat • assist in the catching and processing of fish.
Mid-level job	<p>Job name: Inshore Fishing Skipper</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> • hire and direct the crew • manage the deck and fishing duties • undertake maintenance and emergency repairs.
Senior level job	<p>Job name: Fishing Officer</p> <p>Responsibilities:</p> <ul style="list-style-type: none"> • collect data on caught fish and the working conditions on boats • enforce fish and shellfish quotas • educate people on fishery regulations.



Search online: for entry level courses in the fishing industry in New Zealand.

Entry requirements

Entry requirements for career pathways include:

- Specific skills
- Types and amounts of work experience
- Personal qualities
- Educational credentials
- Specific licences or certificates
- Visa status
- Attitude

This helps industries employ workers who are knowledgeable, skilful and suited to a particular job or role. It also helps the employees as it prepares them for entry level jobs in their chosen primary industry.

Entry requirements will differ from industry to industry and from job to job. In the list below are some examples of different entry level job requirements.

Different entry level job requirements:

- Full drivers licence
- Heavy vehicle licence
- First aid certificate
- New Zealand Citizenship
- NCEA level 1
- New Zealand Certificate in Primary Industry Skills (Level 2)
- Have at least 1 years' work experience in the relevant field
- Be physically fit
- Desire to work in the outdoors



What are some other entry requirements that are necessary for working in the primary industry?

Industry qualifications

In order to improve your skillset and experience you can build on your qualifications. The tables below are examples of certificates that can lead to diplomas in agriculture, horticulture, forestry and fishing. Each table shows the level, qualification name, some learning outcomes and a provider for that qualification.

Agriculture		
Level of qualification	Level 4	Diploma
Name of qualification	New Zealand Certificate in Agriculture	Diploma in Agriculture
Learning outcomes/ what you will learn on the course	<ul style="list-style-type: none"> • what the different environmental impacts are in dairy farming • how to optimise milk harvesting 	<ul style="list-style-type: none"> • how to manage a farm • soil productivity • animal production • pasture and crop production
Providers	Wintec	Massey University

Horticulture		
Level of qualification	Level 3	Diploma
Name of qualification	New Zealand Certificate in Horticulture (with strands in landscape and construction and nursery production)	New Zealand Diploma in Horticulture Production
Learning outcomes/ what you will learn on the course	<ul style="list-style-type: none"> • growing nursery crops • irrigation and soil less growing media • fertilise a horticulture area 	<ul style="list-style-type: none"> • how to manage requirements for a horticulture operation • provide leadership and relationship management for a team in a primary industry operation
Providers	National Trade Academy	Toi-Ohomai Institute of Technology

Forestry		
Level of qualification	Level 2	Diploma
Name of qualification	New Zealand Certificate in Forest Industry Foundation Skills	Diploma in Forest Management
Learning outcomes/ what you will learn on the course	<ul style="list-style-type: none"> • first aid • harvesting (chainsaw skills, breaking out, processing stems to log length) 	<ul style="list-style-type: none"> • how to manage a farm • soil productivity • animal production • pasture and crop production
Providers	North Tec	Massey University

Fishing		
Level of qualification	Level 3	Diploma
Name of qualification	New Zealand Certificate in Fishing Vessel Crewing	New Zealand Diploma in Fishing Vessel Operations
Learning outcomes/ what you will learn on the course	<ul style="list-style-type: none"> • elementary first aid • personal survival techniques • fire prevention and fire-fighting 	<ul style="list-style-type: none"> • safety training • advanced fire fighting • operation of GMDSS radios
Providers	Westport Deep Sea Fishing School	International Maritime Institute of New Zealand



What industry would you prefer to work in and why?



Find a New Zealand certificate.

Choose **one** of the industries (**agriculture, horticulture, forestry or fishing**). Find a New Zealand certificate qualification from the list above or from researching online.

Write down:

- Level of qualification
- Name of qualification
- At least two learning outcomes
- Provider

Industry:	
-----------	--

Level of qualification:	
Name of qualification :	
Learning outcomes/ what you learn on the course:	
Provider:	

Give three reasons why you would want to complete this course.

1.

2.

3.

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Personal advantages and disadvantages of primary industry employment

This section covers:

- primary industry employment in terms of typical characteristics
- advantages and disadvantages of primary industry employment.



Typical characteristics of primary industry employment

Each primary industry has certain characteristics that can be expected from employment. Below are some employment characteristics across agriculture, horticulture, forestry and fishing.

Employment characteristics	Agriculture	Horticulture	Forestry	Fishing
A chance to work in the outdoors	✓	✓	✓	✓
Chace to operate machinery and equipment	✓	✓	✓	✓
A chance to at least 40 hours per week	✓	✓	✓	✓
Doing physical work, and working with hands	✓	✓	✓	✓
A chance to work and train at the same time	High chance	High chance	High chance	High chance
A chance to do science and research	✓			✓
A chance to raise and work with animals	✓			✓
Driving tractors, motorbikes, boats and heavy machinery	✓	✓	✓	✓
Work with plants, trees and crops	✓	✓	✓	
A chance to practice business management such as budgeting and accounting	✓	✓	✓	✓
Strong likelihood of travelling long distances daily				✓

Advantages and disadvantages of primary industry employment

Some of the characteristics listed above can also be seen as personal advantages to employment in these industries.

Environmental impact/disadvantages on the industry

The environment plays an important role and has an impact on everything that we do around us. That includes the industry that we choose to work in. It is therefore necessary to be aware of some of those environmental impacts and the disadvantages they can have.

Some environmental impacts around working in agriculture:

Environment	Impact/disadvantage
Weather	Too much rain or too little rain can slow crop and grass growth.
Pesticides	Pollution from pesticides can lead to poisoning to animals and humans.
Outbreak of disease	An outbreak of disease on crops and animals can lead to failed crops and death in animals



Can you think of anymore environmental impacts on **agriculture**?

Some environmental impacts around working in **horticulture**:

Environment	Impact/disadvantage
Weather	Too much rain or too little rain can slow crop and plant growth.
Pesticides	Pollution from pesticides can lead to poisoning to animals and humans.
Outbreak of disease	An outbreak of disease on crops can lead to a failed crop and have an impact on livelihood.



Can you think of anymore environmental impacts on **horticulture**?

Some environmental impacts around working in **forestry**:

Environment	Impact/disadvantage
Weather	Too little rain can slow tree growth.
Fire	Forest fires can spread rapidly killing trees.
Deforestation	Can have a negative impact on the ecosystem by destroying valuable wildlife.
Outbreak of disease	An outbreak of disease on trees can lead to waste and impact livelihood.



Can you think of any more environmental impacts on **forestry**?

Some environmental impacts around working in **fishing**:

Environment	Impact/disadvantage
Weather	Stormy weather and high winds can lead to dangerous seas and cancelled trips.
Fire	Fires can spread rapidly on fishing boats and ships.
Pollution	Pollution caused by ocean traffic and fishing boats contributes significantly to water pollution.
Outbreak of disease	An outbreak of disease to fish and fish farms can have a harmful effect on the local environment. _



Can you think of anymore environmental impacts on **fishing**?

Glossary

Term	Definition
deforestation	the permanent removal of trees to make room for roads or something other than forest.
compositions	a variety of things that make something.
potential	showing the ability to develop something in the future.
attributes	skills or qualities someone or something has.
relevant	closely connected or appropriate to what is being done or considered.
underpin	is something underpins something, then it supports it.
modest	is an amount of something that is usually enough or a small amount.
environment/al	relating to the natural world.
impact	result
pesticides	chemicals used to destroy insects or harmful weeds.

More information

What	Where to go?
WorkSafe NZ	www.worksafe.govt.nz
Career information	www.nzsafcareers.govt.nz

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Resource Feedback

In order to keep our resources as up-to-date and relevant as possible we would appreciate any comments, feedback or suggestions you may have with regard to this particular resource or others that you have used.

Please contact us via email **product@primaryito.ac.nz** if you have any suggestions that you feel would be useful.

Please remember to indicate the resource you are giving feedback on in your email, and please provide your contact details.

Thank you for taking the time to provide us with feedback.

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