

FIELD AGRICULTURE, FORESTRY AND FISHERIES**Review of *Pork Production* unit standards**

Subfield	Domain	Id
Pork Production	Pig Health and Nutrition	4463, 4465, 4466, 18465, 18467, 22091-22095
	Pig Husbandry	4454, 4456, 4459, 4460, 4467, 4468, 18461-18464, 18466, 18468, 18469, 18471, 18472, 19473, 19474, 22073-22090, 22096
	Pork Production Unit Management	4475, 4485, 22061-22072

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

Date new versions published

March 2010

Planned review date

December 2014

Summary of review and consultation process

The review of the Pork Production unit standards took place from April to September 2009.

Feedback was invited from all pork industry stakeholders and collated prior to consideration by the review panel. The review panel was made up of a range of pork producers from all sectors of the industry which included pork production unit representatives from both indoor and outdoor units, North Island and South Island units, traditional smaller farms, and large corporate operations.

Review panel meetings were convened to discuss the future direction of the pork industry, the content of the existing unit standards, and any new unit standards required to meet future skills requirements. Feedback received from the last review was also considered.

Unit standards were updated, and new unit standards were written where gaps existed. The review panel provided feedback on the new and updated standards by email and via phone and teleconference consultation. Members of the NZ Pork Industry Board (NZPIB), and the Pork Producer's representative on the NZPIB, were also included as part of this initial consultation process.

The new and reviewed unit standards were then sent out for wider industry consultation and changes were incorporated prior to public consultation and feedback through the ITO's website. Any further feedback was considered by the review panel and incorporated where relevant.

The final unit standards were endorsed by the chairperson of the Industry Training Committee prior to their registration.

Main changes resulting from the review

- Definitions were added to special notes differentiating between a pork production unit and a pork production section.
- Standard 4454 was merged with standard 22063 and the resulting content was split into two replacement standards 26158 and 26159.
- Standards 4467, 18471, and 22082 were designated expiring as they were no longer required.
- Standard 18465 was designated expiring as its content was covered in standard 18466.
- Credits for standards 18461, 18464, and 22089 increased.
- Standards 19473 and 19474 were replaced by standard 26163.
- Standards 22083 and 22096 were merged to become replacement standard 26161 as the reproduction requirements for both indoor and outdoor operations are the same.
- Standards 22086 and 22087 were merged to become standard 26162 as the care requirements for sow and litter of both indoor and outdoor operations are the same.
- Standards 4485, 22067 and 22068 were merged to become replacement standard 26157; additional performance criteria were added to include KPIs, total credits for the replacement standard were increased to 40 to reflect the merged and additional content, and the level was set at 5 to reflect the complexity of outcomes.
- Credits for standards 22070 and 22071 decreased from 30 to 25 and 24 to 20 respectively to better reflect the time taken to learn and practice skills and to be assessed.
- The title, level, and credits for standard 22072 were changed to reflect the content, level of complexity and time taken to achieve competency.
- New standard 26160 was written to cover biosecurity plans for a pork production section.
- Titles for some standards were changed to better reflect the content.

Unit standards categorised as category C or D expire at the end of December 2012.

Impact on existing provider accreditations

Current Accreditation for			Accreditation extended to		
Nature of accreditation	Classification	Level	Nature of accreditation	Id	Level
Domain	Pork Production Unit Management	4	Standard	26157, 22072	5

Impact on Accreditation and Moderation Action Plan (AMAP)

AMAP 0052 has been 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

In the following table qualifications that contain unit standards in both categories are identified in the *Affected* table, with the items that generated the *Affected* status in **bold**.

The following Agriculture ITO qualifications are affected by the outcome of this review and are part of a review which began in 2009.

Qualification title	Standard in the qualification
National Certificate in Pork Production (Core Skills) [Ref: 0964]	4467, 18461, 18464, 18465, 18466, 18471, 18472, 19473, 19474, 22090
National Certificate in Pork Production (Stockperson) (Level 3) with strands in Grower Unit, Indoor Operation, and Outdoor Operation [Ref: 0097]	4454, 4456, 22073, 22074, 22082, 22083, 22086, 22087, 22089, 22090-22092, 22096
National Certificate in Pork Production (Herd Manager) [Ref: 0098]	4485, 22062, 22063, 22066, 22068, 22069, 22070-22072, 22094, 22095
National Certificate in Pork Production (Grower Unit Manager) (Level 4) [Ref: 1236]	4485, 22062, 22066, 22067, 22068, 22072, 22094, 22095

Review Categories and changes 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 Pork Production
Domain Pig Health and Nutrition

Id	Title	Level	Credit	Review Category
4463	Prepare pig feed by milling and mixing	3	8	B
4465	Maintain and operate a mechanical dry feeding system for pigs	3	2	B
4466	Maintain and operate an automatic liquid feeding system for pigs	3	3	B
18465	Recognise and act on health signs in pigs and remove dead pigs	2	4	D
18467	Describe pig feed requirements, and feed pigs under direct supervision	2	4	B

Id	Title	Level	Credit	Review Category
22091	Demonstrate knowledge of pig health, health problems, behaviour, welfare and biosecurity procedures Demonstrate knowledge of pig health, health problems, behaviour, welfare, and biosecurity procedures	3	8	B
22092	Identify health and ill health signs in pigs, and perform supervised preventative health procedures Identify health and ill health signs in pigs, and perform preventative health procedures	3	3	B
22093	Maintain pork production unit hygiene	3	7	B
22094	Demonstrate knowledge of pig diseases and disorders, and plan a preventative health programme Demonstrate knowledge of pig diseases and disorders, and plan a pork section preventative health programme	4	4	B
22095	Maintain feed supplies, and manage feed deliveries in a pork production unit Maintain feed supplies and manage feed deliveries in a pork production unit	3	3	B
25389	Describe the composition and contribution of feed nutrients used for pigs, and formulate diets for pigs	5	10	New
25391	Describe disease management and the effect of disease on pig herd productivity, and plan a pork unit health programme	5	10	New

Id	Domain	Title	Level	Credit	Review category
4454	Pig Husbandry	Demonstrate knowledge of genetics in pig breeding	3	3	C
22063	Pork Production Unit Management	Demonstrate knowledge of pig breeding, and breeding programmes	4	5	C
26158	Pig Husbandry	Demonstrate knowledge of pig genetics, breeding, and improvement	4	5	
26159	Pig Husbandry	Demonstrate knowledge of pig breeding programmes	4	2	

Domain Pig Husbandry

Id	Title	Level	Credit	Review Category
4456	Demonstrate knowledge of pig anatomy and physiology	3 2	3	B
4459	De-tusk a boar under supervision	3	2	B
4460	Ring a sow or boar under supervision	3	2	B

Id	Title	Level	Credit	Review Category
4467	Demonstrate knowledge of the nature and requirements of a career in the pork industry	1	2	D
4468	Demonstrate knowledge of the pork industry	3	5	B
18461	Handle, restrain, move, and hold pigs Handle, restrain, move, and hold pigs as directed	2	5 8	B
18462	Handle and move a boar Move a boar	2	2	B
18463	Carry out pork production unit biosecurity procedures	2	4	B
18464	Demonstrate knowledge of pork production unit biosecurity	2	4 5	B
18466	Enter, and walk through a pork production unit, and inspect pigs and equipment Enter, and walk through a pork production section, and inspect pigs and equipment	2	3	B
18468	Demonstrate knowledge of pig welfare	2	5	B
18469	Demonstrate knowledge of pig feed ingredients, and mix and mill diets under direct supervision	2	2	B
18471	Protect health and safety in a pork production workplace	2	2	D
18472	Identify and describe facilities, equipment, and pig types, and do routine pork production unit work Identify and describe facilities, equipment, and pig types	2	2	B
19473	Describe piggery cleaning, and clean and sanitise the piggery facility under direct supervision	2	2	C
19474	Clean a piggery facility using a waterblaster under direct supervision	2	2	C
26163	Describe piggery cleaning, and clean and sanitise the piggery facility under direct supervision	2	6	
22073	Assist sows to farrow, under supervision in an indoor unit Assist sows to farrow under supervision in an indoor pork production unit	3	10	B
22074	Assist sows to farrow, under supervision in an outdoor unit Assist sows to farrow under supervision in an outdoor pork production unit	3	7	B
22075	Demonstrate knowledge of weaning, and grower and weaner pig husbandry	3	4	B
22076	Care for newly weaned pigs	3	6	B
22077	Care for grower pigs	3	7	B
22078	Prepare pigs for transport	3	2	B
22079	Assist with carrying out performance testing of replacement pig breeding stock	3	3	B
22080	Demonstrate knowledge of pig reproduction, mating, dry sow husbandry, wastage, and culling	3	8	B

Id	Title	Level	Credit	Review Category
22081	Catch, restrain, lift, and move pigs	3	6	B
22082	Catch, restrain, lift, and move weaner and grower pigs in a finishing unit	3	4	D
22083	Carry out checks, oestrus detection, mating, and culling of sow breeding stock in an indoor unit	3	8	C
22096	Carry out checks, oestrus detection, mating, and culling of sow breeding stock in an outdoor unit	3	8	C
26161	Carry out checks, oestrus detection, mating, and culling of breeding stock in an indoor or outdoor unit	3	8	
22084	Carry out pregnancy testing of sow breeding stock	3	2	B
22085	Demonstrate knowledge of farrowing, and post-farrowing care of the litter and sow	3	3	B
22086	Care for the sow and litter from birth to weaning in an indoor unit	3	25	C
22087	Care for the sow and litter from birth to weaning in an outdoor unit	3	21	C
26162	Care for the sow and litter from birth to weaning in an indoor or outdoor pork production unit	3	25	
22088	Demonstrate knowledge of pig nutrition	4	7	B
22089	Demonstrate knowledge of feeds, feeding systems, methods, and levels for pigs	3	2 3	B
22090	Describe the relationship between handling and behaviour of pigs, and productivity Describe the relationship between handling and behaviour of pigs and productivity	3	2	B
25390	Describe the effects of culling, wastage, and reproductive factors, on reproductive performance of the pig breeding herd	5	6	New

Domain Pork Production Unit Management

Id	Title	Level	Credit	Review Category
4475	Manage the care of the grower pig herd	4	15	B
4485	Plan and organise pork production unit throughput	4	4	C
22067	Demonstrate knowledge of the physical and financial performance of a pork production unit	5	8	C
22068	Monitor the performance of the pork production unit	4	6	C
26157	Assess pork production unit capacity, set production targets for KPIs, prepare a production plan, and monitor variations	5	40	
22061	Manage the care of newly weaned pigs	4	15	B
22062	Select pigs for sale, and manage their transport Select market pigs for sale, and manage their transport	4	3	B
22064	Select pig breeding stock, and prepare for sale	4	6	B

Id	Title	Level	Credit	Review Category
22065	Demonstrate knowledge of pork production unit waste management and environmental implications	3	3	B
22066	Plan and implement work routines for a pork production unit Plan, implement, and evaluate work routines for a pork production section	4	3	B
22069	Demonstrate knowledge of mating and dry sow management practices, and artificial insemination Demonstrate knowledge of mating and dry sow husbandry management practices, and artificial insemination	4	7	B
22070	Manage the care of the pig breeding herd from post weaning to farrowing	4	30 25	B
22071	Manage the care of the sow and litter from pre-farrowing to weaning Manage the care of the sow and litter from farrowing to weaning	4	24 20	B
22072	Prepare, and describe the implementation and monitoring of, a pork production unit biosecurity plan Prepare, monitor, and implement changes to a pork production unit biosecurity plan	4 5	2 4	B
26160	Prepare, monitor, and implement changes to a pork production section biosecurity plan	4	2	New