

<b>Title</b>	<b>Demonstrate understanding of post-mortem examination of animal products used for human consumption</b>		
<b>Level</b>	<b>4</b>	<b>Credits</b>	<b>25</b>

<b>Purpose</b>	<p>This unit standard is for people who are employed in a meat processing operation to carry out post-mortem examinations of animal products used for human consumption.</p> <p>People credited with this unit standard are able to demonstrate understanding of: animal blood and lymph circulatory systems; anatomical features of carcasses, heads and viscera; the purpose of animal products post-mortem examination, the examination techniques, and presentation standards used in post-mortem examination; the causes and the spread of disease within the body of an animal; the disease states and their effect on the fitness for intended purpose of animal products; the post-mortem appearance of, and the judgement and dispositions for, diseases and defects generic to animals; and the powers and obligations of examiners in terms of carrying out animal material and animal product examinations.</p>
----------------	---

<b>Classification</b>	Meat Processing > Animal Product Examination
-----------------------	--

<b>Available grade</b>	Achieved
------------------------	----------

### Guidance Information

- 1 Demonstration of competency must be consistent with all relevant legislation and subsequent amendments; this includes but is not limited to:
  - Workplace procedures
  - Industry standards
  - Health and Safety at Work Act 2015
  - Animal Products Act 1999.
  
- 2 Industry standards refer to:
  - Ministry for Primary Industries' Operational Codes available at - <http://www.foodsafety.govt.nz/elibrary/industry/red-meat-code-practice/index.htm>
  - Ministry for Primary Industries' standards available at <http://www.foodsafety.govt.nz/industry/sectors/meat-ostrich-emu-game/meatman/>
  - Overseas Market Access Requirements (OMARs).

### 3 Definitions

*Animal material* – any live or dead animal.

*Animal products* – animals slaughtered for human consumption.

*Dispositions* – the action of ensuring that examined animal material or animal product with abnormalities is managed in accordance with legislative requirements.

*Examiners* – ante-mortem examiners and post-mortem examiners.

*Fitness for intended purpose* – animal product that has been processed such that relevant risk factors have been managed.

*Official Assessors* – ante-mortem examiners and post-mortem examiners appointed under Section 79 of the Animal Products Act 1999 to carry out animal material and animal product examinations.

*Workplace procedures* – the verbal and written policies and procedures on safety and operation set down by the employer or organisation.

- 4 In the context of this unit standard, *understanding* means that there should be evidence of a learners' thorough comprehension of a topic. A learner with a good understanding of a topic should have applied, or should be able to apply what they have learnt to a workplace situation and will be able to alter their practices to the different contexts they are applying their learning to. Assessors should be confident that the learners' understanding is embedded in their practices and behaviour.

### 5 Range

*Carcasses* may include but are not limited to – deer, possums, rabbits and hares, cattle, horses, pigs, bobby calves, feral mammals, sheep, goats, lambs, camelids.

- 6 Diseases requiring report are those listed in the Ministry for Primary Industries' Notifiable Organisms list, available at <http://www.mpi.govt.nz/protection-and-response/finding-and-reporting-pests-and-diseases/registers-and-lists/>.

---

## Outcomes and performance criteria

### Outcome 1

Demonstrate understanding of animal blood and lymph circulatory systems.

### Performance criteria

- 1.1 Describe the functions of least seven components of the vascular system.
- 1.2 Describe the operations of at least 15 structures of the heart.
- 1.3 Describe the functions of at least four constituents of blood.
- 1.4 Describe the functions of the general systemic circulation, and the purpose of the pulmonary and portal circulations and foetal circulation within blood circulatory systems.
- 1.5 Describe functions of at least five components of the lymphatic system.
- 1.6 Describe the relationship between lymph nodes and lymph ducts in the lymph system.

- 1.7 Describe the significance of at least 10 terminal lymph nodes for meat inspection.
- 1.8 Describe at least three functions of the lymphatic system.
- 1.9 Describe the effluent and affluent drainage areas of at least 20 types of lymph nodes.

## **Outcome 2**

Demonstrate understanding of anatomical features of carcasses, heads and viscera.

### **Performance criteria**

- 2.1 Locate and name at least 10 anatomical parts of the liver.
- 2.2 Locate and name at least four anatomical parts of the kidneys.
- 2.3 Locate and name at least 10 anatomical parts of the lungs.
- 2.4 Locate and name at least 18 anatomical parts of the head and tongue.
- 2.5 Locate and name at least eight anatomical parts of the heart.
- 2.6 Locate and name the key anatomical parts of the gastro-intestinal, reproductive and urinary tracts, and spleen.
- 2.7 Locate and name at least 25 anatomical parts of a dressed meat carcass.
- 2.8 Identify the sex and age category of meat carcasses by examination of teeth eruption, and maturity state of visible cartilage.

## **Outcome 3**

Demonstrate understanding of the purpose of animal products post-mortem examination, the examination techniques, and appearance standards used in post-mortem examination.

### **Performance criteria**

- 3.1 Describe the purpose of post-mortem animal product examination.
- 3.2 Describe at least four techniques used in animal product post-mortem examination.
- 3.3 Describe the industry standards for presentation of at least seven animal products presented for post-mortem examination.

## **Outcome 4**

Demonstrate understanding of the causes and the spread of disease within the body of an animal.

**Performance criteria**

- 4.1 Describe the physical, biological and chemical causes of disease.
- 4.2 Describe at least three ways in which pathogens invade the body to cause disease.
- 4.3 Describe the way in which disease is spread.
- 4.4 Describe disease indicator systems.

**Outcome 5**

Demonstrate understanding of the disease states and their effect on the fitness for intended purpose of animal products.

**Performance criteria**

- 5.1 Describe the features of at least six diseases.
- 5.2 Describe the effects of at least three different diseases on the fitness for intended purpose of animal products.

**Outcome 6**

Demonstrate understanding of the post-mortem appearance of, and the judgement and dispositions for, diseases and defects generic to animals.

**Performance criteria**

- 6.1 Identify and describe normal appearances of dressed carcasses.
- 6.2 Describe the appearance of at least seven post-mortem generic diseases.
- 6.3 Describe the procedures for judgements and dispositions for listed diseases and defects.

**Outcome 7**

Demonstrate understanding of the powers and obligations of examiners in terms of carrying out animal material and animal product examinations.

**Performance criteria**

- 7.1 Describe the powers and legal obligations of examiners when carrying out animal material and animal product examinations.
- 7.2 Describe the regulatory powers and obligations of examiners appointed under the Animal Products Act 1999 for the purposes of carrying out animal material and product examinations.

7.3 Describe the relationship between a risk management programme and the functions of examiners and the effect on animal product examinations.

Range examples of relationships – Ministry for Primary Industries, Ministry for Primary Industries Verification Service, Animal Products Act 1999, Animal Product Regulations, Notices, Operational Codes.

<b>Replacement information</b>	This unit standard replaced unit standard 13497, unit standard 13498, unit standard 13499, unit standard 24501.
--------------------------------	---

<b>Planned review date</b>	31 December 2022
----------------------------	------------------

#### Status information and last date for assessment for superseded versions

Process	Version	Date	Last Date for Assessment
Registration	1	19 July 2012	31 December 2016
Review	2	27 January 2015	31 December 2019
Review	3	20 July 2017	31 December 2019
Revision	4	28 September 2017	N/A

<b>Consent and Moderation Requirements (CMR) reference</b>	0033
--	------

This CMR can be accessed at <http://www.nzqa.govt.nz/framework/search/index.do>.

#### Comments on this unit standard

Please contact the Primary Industry Training Organisation [standards@primaryito.ac.nz](mailto:standards@primaryito.ac.nz) if you wish to suggest changes to the content of this unit standard.