INTRODUCTION
These Membership Guidelines should be read in conjunction with the Membership Candidate Handbook.

ELIGIBILITY
Refer to Section 2 of the Membership Candidate Handbook.

OBJECTIVES
To demonstrate that the candidate has sufficient knowledge of and experience in animal welfare to be able to give sound advice to colleagues on problems and procedures commonly encountered in this field.

LEARNING OUTCOMES
This subject is described in the following learning outcomes and covers animal welfare of all species of animals which are defined in Australian, New Zealand and/or International laws, regulations and agreements. These may include domestic animals such as cattle, sheep, goats, pigs, poultry, horses and companion animals, laboratory, zoo and feral animals, wildlife, fish and cephalopods.

1. Introduction to Animal Welfare Science
   1.1. The candidate will have a sound\(^1\) knowledge of:
      1.1.1. Concepts of animal welfare
         1.1.1.1. Biological function
         1.1.1.2. Animal feelings
         1.1.1.3. Naturalness or telos

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\(^1\)Knowledge levels:
- **Detailed knowledge** — candidates must be able to demonstrate an in-depth knowledge of the topic including differing points of view and published literature. The highest level of knowledge.
- **Sound knowledge** — candidate must know all of the principles of the topic including some of the finer detail, and be able to identify areas where opinions may diverge. A middle level of knowledge.
- **Basic knowledge** — candidate must know the main points of the topic and the core literature.
1.1.1.4. The constituents of animal wellbeing, animal suffering, and animal distress
1.1.1.5. Frameworks to consider the needs of animals (e.g. Five Freedoms, Five Domains)
1.1.1.6. Scientific approaches to animal welfare, their use in assessment and their limitations

1.2. The candidate will have a basic knowledge of:

1.2.1. Domestication and use of animals
1.2.2. Differences and similarities between animal rights and animal welfare concepts
1.2.3. Factors influencing public perception of animal use and associated impact on animal welfare

2. The Ethics of Animal Use

2.1. The candidate will have a basic knowledge of:

2.1.1. Philosophical concepts for assessing human use of animals
2.1.2. Practical ethical frameworks for harm/benefit analyses [consequentialist and non-consequentialist approaches]
2.1.3. The use of animals in research and teaching (The THREE Rs (refinement, reduction and replacement)

3. Psychological and Physiological Aspects of Adverse States

3.1. The candidate will have a sound knowledge of:

3.1.1. Behaviour
   3.1.1.1. Changes in behaviour reflecting welfare state
   3.1.1.2. Abnormal behaviour related to housing and husbandry
   3.1.1.3. Motivation, self-awareness, self-consciousness and cognition in animals

3.1.2. Physiological
   3.1.2.1. Stress and its scientific evaluation

3.1.3. Pain pathways, perception and response
3.1.4. Relationships between disease and welfare e.g. lameness in cattle, leg weakness in broilers, tail-biting in pigs

4. Environment and Human Factors

4.1. The candidate will have a sound knowledge of:

4.1.1. Resource based factors
   4.1.1.1. The effects of environmental factors on welfare e.g. cage and pen design, stocking density, safety aspects, building design (humidity, noise etc), enrichment
   4.1.1.2. Welfare challenges of intensive and extensive farming systems
   4.1.1.3. Problems associated with social groupings or isolation

4.1.2. Human animal relationship factors
   4.1.2.1. Human-animal bond
   4.1.2.2. Selection of animal attendants, animal technicians and stock persons
   4.1.2.3. Stockmanship and productivity
4.1.2.4. The link between animal abuse and domestic violence

5. The Veterinary Profession’s Role in Animal Welfare

5.1. The candidate will have a **basic** knowledge of:

5.1.1. Advocacy and advisory roles with stakeholders (including veterinarians, lawyers, government, industry, pet owners, animal welfare organisations and ethics committees)
5.1.2. Leadership role in welfare for the profession and the community
5.1.3. Advice on management of animal welfare during natural disasters and disease outbreaks
5.1.4. Veterinary professional ethics

6. Veterinary Aspects of Animal Welfare

6.1. The candidate will have a **sound** knowledge of:

6.1.1. Pain recognition and assessment
6.1.2. Methods of euthanasia and their assessment for humaneness

6.2. The candidate will have a **basic** knowledge of:

6.2.1. Pharmacokinetics of pain relief
6.2.2. Welfare assessment of routine procedures such as spaying, castration, tail docking, mulesing, disbudding, branding
6.2.3. Management of animals with hereditary problems including advice on breeding programmes

7. Legislation and Animal Welfare

7.1. The candidate will have a **sound** knowledge of:

7.1.1. Animal welfare legislation (Acts and Regulations) in Australia and New Zealand and its implementation including enforcement
7.1.2. Animal welfare codes of practice/standards and guidelines including regulation of the use of animals for scientific purposes
7.1.3. Animal welfare in quality assurance schemes

7.2. The candidate will have a **basic** knowledge of:

7.2.1. International, National and State Responsibilities
7.2.2. Government committee structure
7.2.3. Animal law – role and impact

8. Contemporary Animal Welfare Issues

8.1. The candidate will have a **sound** knowledge of:

8.1.1. Production animals – live export, intensive production, dairy
8.1.2. Companion animals – overpopulation, brachycephalic breeds
8.1.3. Wild animals (including captive, native and introduced)
8.1.4. Sport and entertainment (racing, circuses and rodeos)
EXAMINATIONS
For information on the required standard and format for both the Written and Oral examinations, candidates are referred to the Membership Candidate Handbook. The Membership examination has two separate, components:

1. Written Examination (Component 1)
   Written Paper 1 (two hours): Principles of the Subject
   Written Paper 2 (two hours): Applied Aspects of the Subject

2. Oral Examination (Component 2)
   Oral (one hour)

The written examination will comprise of two separate two-hour written papers taken on the same day. There will be an additional 15 minutes perusal time for each paper, during which no writing in an answer booklet is permitted. In each paper you are provided with six (6) questions to answer, worth 20 marks each, giving a total of 120 marks per paper. There is no choice of questions. Questions may be long essay type or a series of shorter answer sub-questions. Marks allocated to each question and to each subsection of questions will be clearly indicated on the written paper.

Written Paper 1:
This paper is designed to test the candidate’s knowledge of the principles of animal welfare as described in the Learning Outcomes. Where questions relate to general principles, answers may cite specific examples, but should primarily demonstrate an understanding of the underlying theoretical basis.

Written Paper 2:
This paper is designed to (a) test the candidate’s ability to apply the principles of animal welfare to particular cases/problems or tasks and (b) test the candidate’s familiarity with the current practices and issues that arise from activities within the discipline of animal welfare in Australia and New Zealand.

Oral Examination:
This examination requires the candidate to demonstrate achievement of the above mentioned Learning Outcomes. Discussion will be predominantly based on case material. The duration of this examination is approximately one (1) hour. A variety of multimedia is likely to be used during this examination. Five (5) cases are presented with supporting questions asked verbally in a face-to-face setting. The oral examination has a total of 100 marks with each case allocated 20 marks.
RECOMMENDED READING MATERIAL

The candidate is expected to research the depth and breadth of the knowledge of the discipline. This list is intended to guide the candidate to some core references and source material. The list is not comprehensive and is not intended as an indicator of the content of the examination.

Recommended Texts and Resources


Recommended Resources for Legislation

Australian State and Territory Animal Welfare Legislation and Codes of Practice.

It is recommended that the candidate refer to the legislation and codes for their own particular state or territory.


New Zealand Animal Welfare Legislation


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2 Definitions of Textbooks

Core textbook – candidates are expected to own a copy of the textbook and have a detailed knowledge of the contents.

Recommended textbook – candidates should own or have ready access to a copy of the book and have a sound knowledge of the contents.

Additional references – candidates should have access to the book and have a basic knowledge of the contents.
Further reading

Animal Welfare Science


Ethics


Physiological and Psychological Aspects of Welfare


Mellor, D.J. (2017). Operational details of the Five Domains Model and its key applications to the assessment and management of animal welfare. Animals 7(8), 60;

Environment and Human Factors


Veterinary Aspects

Other References in areas that might be of interest
Mullan, S., and Fawcett, A. (2017). Veterinary ethics: navigating tough cases. 5M.

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Springer Animal Welfare Series:

- The Welfare of Cats (Ed. I. Rochlitz, 2005)
- The Welfare of Laboratory Animals (Ed. E. Kaliste, 2004)
- The Welfare of Dogs (Author K. Stafford, 2005)
- The Welfare of Pigs (Ed. J.M. Marchant, 2009)
- The Welfare of Sheep (Ed. C.M. Dwyer, 2009)
- The Welfare of Poultry and other Captive Birds (Eds. I.J. Duncan and P. Hawkins, 2010)
- Education in Animal Welfare (Author, T. Eadie, 2011)

Springer Animal Behaviour Series:

- Stress and Animal Welfare (Authors D. Broom and K. Johnson)
Journals

Recommended Journals
- Animal Welfare
- Animals
- Anthrozoos
- Applied Animal Behaviour Science
- Australian Veterinary Journal
- Journal of Applied Animal Welfare Science
- Journal of the American Veterinary Medical Association
- New Zealand Veterinary Journal
- The Veterinary Journal

Additional Journals
- Australian Veterinary Practitioner
- Canadian Veterinary Journal
- Journal of Veterinary: Clinical Applications and Research
- Journal of Veterinary Medical Education
- Laboratory Animals
- Veterinary Clinics of North America

Information Resource Centres


Animal Welfare Science Centre, Melbourne Australia (http://www.animalwelfare.net.au) [Accessed March 7, 2017]


RSPCA Australia (http://kb.rspca.org.au/) [Accessed February 17, 2017]


Definitions for journals:
Core Journal – candidates are expected to have ready access to either print or electronic versions of the journal and have a detailed knowledge of the published articles in the subject area.
Recommended Journal – candidates should have ready access to either print or electronic versions of the journal and have a sound knowledge of the published articles in the subject area.
Additional Journal – candidates should be able to access either printed or electronic versions of the journal and have a basic knowledge of the published articles in the subject area.

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FURTHER INFORMATION

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