

PROPOSED ASSESSMENT METHODS FOR CERTIFICATE IN ADVANCED
VETERINARY PRACTICE (LAS)

Ref. No. **B-LAS.4**

Title: **Laboratory Animal Science**

1. A diary maintained over a period of two months for those in full-time employment as NVS, and 6 months for those in part-time work. This should demonstrate regular contact with laboratory animals in a research facility or laboratory animal breeding establishment, and should document how the role of the NVS was fulfilled during this period. The diary should include problems encountered (*eg* diseases, welfare problems, problems with model development) and how they were managed, as well as time spent on other aspects of the NVS's role, *eg* training, advising on best practice, preventative medicine.
2. Two case reports, 2000 words each. These may comprise:
 - investigation and/or management of a health or welfare or experimental design problem in a research facility,
 - development of teaching or training of research staff,
 - development and/or refinement of an animal model,
 - development and/or refinements of anaesthetic or peri-operative care protocols,
 - fear and distress minimisation strategies,
 - development and/or refinement of environmental enrichment measures and potential impact on the science.

This list is not intended to be prescriptive, but aims to provide some guidance on suitable topics for case reports.

Ref. No. C-LAS.1

Title: **Laboratory Animal Science**

Anaesthesia and Analgesia of Laboratory Animals

1. A case book of 4 case exposures not exceeding 300 words each. These cases should demonstrate, for example, the candidate's involvement in developing or refining anaesthetic regimens for different species or in advising on programmes of post-operative care

OR

A case diary maintained over a 3 month period (not necessarily consecutive). The case book/diary should document the candidate's experiences of anaesthesia, analgesia and peri-operative care, specifically addressing the challenges associated with anaesthesia and analgesia in laboratory species.

2. EITHER:

- a. ONE short communication-type reports (up to 2000 words) relating to topics covered in the module. The report should be formatted along the lines of a scientific paper, e.g.:

- Introduction: background information, set stage for problem
- Description of case/situation
- Actions taken and outcome
- Discussion: analysis of case; alternative strategies that could have been adopted, comparison to similar cases/situations in literature

AND

A critical review of one publication in a refereed scientific publication relevant to the module content (approx 1500-2000 words).

OR:

- b. TWO short communication-type reports (up to 2000 words) relating to topics covered in the module (as above).

Ref. No. **C-LAS.2**

Title: **Laboratory Animal Science**

Animal Models, Humane End Points and Study Design

1. A case book of 4 case exposures not exceeding 300 words each. These cases should demonstrate, for example, the candidate's involvement in establishing animal models, refining existing models, advising on humane end points and participation in experimental design.
2. Critical review of one publication in a refereed scientific publication relevant to the module content (approx 2000 words).
3. A comprehensive literature review of a topic relevant to the module content (no more than 3000 words). Examples may include a critical review of animal models of a specific disease/condition (*e.g.* models of diabetes, arthritis), review of imaging methods used in laboratory animals.

Ref. No. C-LAS.3

Title: **Laboratory Animal Science**
Genetically Modified Animals

1. A case book of 4 case exposures not exceeding 300 words each. These cases should demonstrate, for example, the candidate's involvement in clinical assessment or investigation of phenotype in genetically-altered animals, advising on management of adverse phenotypes, advising on humane end points, advising on best-practice for obtaining tissue for genotyping.
2. One short communication-type reports (up to 2000 words) relating to topics covered in the module. Examples may include identification and management of a phenotypic abnormality related to genetic alteration, establishment of a "passport" system for genetically-altered rodents, establishment of best-practice guidelines for colony management, genotyping etc, and establishment of a health-monitoring programme for immunosuppressed mice. The report should be formatted along the lines of a scientific paper, e.g.:
 - a. Introduction: background information, set stage for problem
 - b. Description of case/situation
 - c. Actions taken and outcome
 - d. Discussion: analysis of case; alternative strategies that could have been adopted, comparison to similar cases/situations in literature
3. A comprehensive literature review of a topic relevant to the module content (no more than 3000 words). Examples may include review of one or more genetic technologies utilised in biological/biomedical research (*e.g.* gene therapy, methods of genetic modification, methods of assisted reproduction in rodents), review of phenotyping profiles for genetically altered mice.

Ref. No. C-LAS.4

Title: **Laboratory Animal Science**
Diseases of Laboratory Animals

1. A learning diary of 3 months' duration (not necessarily consecutive). This will document the candidate's experiences with diseases of laboratory animals during this period, including diagnosis, treatment and prevention of diseases handled by the candidate, and also those encountered by the candidate through reading or discussion with others (*e.g.* diseases encountered through review of health reports on animals from external sources; novel diseases reported in the literature). A list of bibliography or other learning resources used to contribute to the learning diary should be included.

2. EITHER:
 - a. ONE case report of up to 2000 words in length, formatted along the lines of a published case report, *e.g.*:
 - a. Introduction: background information, set stage for problem
 - b. Case history, clinical presentation
 - c. Diagnostic evaluation
 - d. Outcome and response (*e.g.* methods of control if infection)
 - e. Discussion: analysis of case; alternative strategies that could have been adopted, comparison to similar cases in literature

AND

A Critical review of one publication in a refereed scientific publication relevant to the module content (approx 2000 words).

OR

- b. TWO case report of up to 2000 words in length Cases should involve two different species and should be formatted along the lines of a published case report (as described above).

ECW, May 08