

MANUAL OF ADMINISTRATION
for the
CLINICAL PROFICIENCY EXAMINATION

July 27- December 31, 2026, Edition
(version July 27, 2026)

For use ONLY in CPE administrations July 27, 2026, through December 31, 2026

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GENERAL INFORMATION

Statement of Intent

The CPE is an examination for veterinary graduates wishing to gain educational equivalency or pursue licensure in the United States or Canada, respectively, and who have not graduated from a veterinary school/college accredited by the American Veterinary Medical Association (AVMA) Council on Education (COE). In some instances, the Canadian National Examining Board (NEB) also uses the CPE for examination of graduates of veterinary schools/colleges accredited by the AVMA COE who have not been successful on the national licensure examination. The CPE is designed to assess the candidate's practical clinical veterinary skills at the level of a day-one-ready graduate of an AVMA/COE-accredited veterinary school/college.

CPE Site General Requirements

For any entity to become a CPE site, three resource areas must be assured. The site must provide appropriate animals and their care; qualified CPE Site team members; and adequate assessment facilities and equipment. Each site administering the CPE must comply with all laws within their jurisdiction (e.g., those relating to animal use and drug availability). Further, a site must report any legally necessary deviation from this CPE Manual of Administration (CPE MOA) to the AVMA's Educational Commission for Foreign Veterinary Graduates (ECFVG) or to the NEB for final approval. The ECFVG and NEB will notify candidates of legally necessary deviations.

The CPE MOA describes specific sections and skills to be assessed and serves as the required standard operating procedure manual for administering the CPE. The ECFVG recognizes that there are variables that cannot be eliminated (e.g., the temperament of the animals used in the CPE, equipment malfunction, etc.); however, the ECFVG requires that each site adheres to the standards set forth in the CPE MOA. All CPE sites must agree to be monitored by the ECFVG or the National Examining Board (NEB) of the Canadian Veterinary Medical Association. The process for monitoring CPE sites is described in the ECFVG document titled, *Quality Assurance for the CPE—Site Proposal*, available as an appendix in the CPE Candidate Bulletin- see appendix 2: www.avma.org/professionaldevelopment/education/foreign/pages/ecfvg-cpe-bulletin.aspx#cpe-appendix-2.

Candidates will not be assessed at a CPE examination site if:

- They are graduates of that school/college. *
- They have participated in a clinical training program specifically designed for the CPE at that site or school/college. *
- They are employees or former employees of that site or school/college. *
- They were an intern or resident at that site or school/college.

*Exception only for *Université de Montréal, St. Hyacinthe* (French speaking; for NEB purposes only).

General Information

Candidates may take the CPE at a site at which they took Continuing Education courses, if candidates are not tested by the same individual(s) who provided the instruction.

Animal Requirements

The CPE site is required to provide for appropriate humane care and treatment of the animals. To ensure proper care and treatment, the following are required:

- Animal resources (species, weights, age, sex, numbers, etc.) must meet the standards set forth in the CPE MOA.
- Local, state, and United States federal animal welfare laws, or similar laws applicable in Canada, must be adhered to and the facility must meet the standards of the most current United States Federal Animal Welfare Act or the Canadian Council on Animal Care.

Acceptable sources of live animals, necropsy specimen, and bovine fetuses may include the following:

- Sources consistent with Provincial Animals for Research Acts
- United States Department of Agriculture, licensed animal dealers
- Purpose bred animals
- Animal Shelters/Humane Societies
- Food animal producers
- Livestock sales
- Slaughterhouses
- Institution owned or practice owned
- Donated animals (must be accompanied by a signed consent form from the donor)
- Owned animals (must be accompanied by signed consent from the owner)

CPE Site team member Requirements

CPE Site team members utilized for administration and scoring of the CPE must possess demonstrated expertise to assess entry-level clinical skills of veterinary graduates. The site and section coordinators and examiners must possess knowledge of the list of common conditions/diseases and pharmaceuticals/biologicals as they pertain to the practice of veterinary medicine in the United States and Canada.

The following minimum standards are required for CPE Site team members:

- Levels of CPE Site team member are identified as:
 - *Site Coordinator or equivalent*—This person coordinates and manages the activities of the examination site. They must have a DVM degree (or equivalent). Site Coordinators must also consistently attend CPE Site Coordinators Meetings facilitated by the ECFVG and NEB.

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- *Section Coordinator or equivalent*—This person organizes and sets up the specific section of the examination and is responsible for the overall quality control and administration of that section. Section Coordinators must have a DVM degree (or equivalent) and be using the skills being assessed in the section/discipline within the last 10 years, with a minimum of five (5) years' experience in the section/discipline in the United States or Canada.
- *Examiner*—This person coordinates and sets up the station with the Section Coordinator, administers the station, and is directly responsible for evaluating the candidates. The examiner also signs off as the primary examiner on all assessment forms, even when a secondary examiner or veterinary technician takes part in assessing a candidate's performance. Examiners must have a DVM degree (or equivalent) and been practicing in the section/discipline within the last 10 years, with a minimum of two (2) years clinical experience using the skills being assessed in the section/discipline in the United States or Canada. Residents and interns that meet the above qualifications may serve as examiners.
- *(Optional): Surgical Auditor- If utilized by the site, this is an individual who will be responsible for checking the following steps of the procedure: the removal of ovaries and uterus and security of associated ligature and the security of the abdominal wall closure. The surgical auditor will communicate their findings to the surgical examiner.*
 - *Note for sites that do not utilize the surgical auditor, these check points will be confirmed by the surgical examiner. Veterinary Technician - An individual who is a credentialed veterinary technician. They must possess training and expertise in the species/procedure for which they are assisting. If a veterinary technician is assisting the examiner(s) in candidate assessment and documenting observations on the assessment form, they must be under the direct supervision of the examiner.*
- *Exam Assistant*—An individual who assists the examiner(s) in the administration of the examination and does not assess candidates.

Facilities and Equipment

The facilities and equipment used in the CPE should meet contemporary practice standards for the US and/or Canada. Facilities refer to structures and equipment refers to movable items used to practice clinical veterinary medicine. CPE sites are expected to comply with the following:

- Facilities and equipment used for the CPE should meet the requirements outlined in this document.
- The facilities should ensure the safety of personnel and candidates and provide for the safety and welfare of the animals.
- The facilities and equipment should be adequate to examine multiple candidates simultaneously.
- The facilities and equipment may vary slightly between sites in order to comply with all relevant local, state, provincial and United States or Canadian Federal regulations. These requirements include, but are not limited to zoning, radiation safety, personnel and animal safety, animal care and use, and potentially toxic or dangerous substances (anesthetic gases).

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- Because candidates are being assessed on their ability to practice veterinary medicine at the level of a day one graduate from a COE accredited veterinary school/college, physical facilities and equipment should be equivalent to those used in a United States or Canadian contemporary veterinary clinical facility.
- Candidates must be provided with an adequate staging area for orientation, storage, and rest.
- All sites must provide timers, visible to all candidates, for each station or section. Timers should be of the “count-down” variety to allow candidates and examiners alike to clearly see time remaining in station or section.

Video/Audio Recording of Examination

The ECFVG reserves the right to record any, or all, portions of the CPE administration at all sites. The recordings of examination administrations will be utilized for examiner training and quality assurance purposes, and the sites are to make all efforts to ensure that the recordings provide a clear and accurate portrait of the examination. However, should the recording equipment fail, this should not in any way affect the examination process or schedule.

Scheduling and Timing of the CPE

The seven-section CPE is designed to be administered in a three- to four-day period, with one to two sections per day. Candidates can be split into two groups (Group A and Group B) for the purpose of scheduling. Both the specific schedule and the number of candidates per group will vary among examination sites.

Taking Breaks

CPE candidates should make every effort to limit their breaks between CPE sections or stations. If a candidate urgently needs to take a break in the middle of an exam station, they should be aware that the timer for that station will continue during that break in accordance with the CPE MOA. Notably, taking a break does not relieve Surgery candidates from maintenance of aseptic technique and the timer will not stop for re-gloving, re-gowning, etc. In any instance, if taking a break endangers an animal or creates an inhumane situation as determined by the examiner (e.g., leaving an anesthetized patient unattended), the candidate may receive a Dismissible Event for the station or section of the CPE.

Other Policy Information

For other policy information specific to the CPE, ECFVG candidates are advised to contact the ECFVG office ECFVG@avma.org and NEB candidates, the NEB office neb-bnc@cvma-acmv.org; <http://www.canadianveterinarians.net/programs/national-examining-board.aspx>).

General Discussion about the CPE

Candidates are urged to carefully read the CPE Candidate Bulletin (available at www.avma.org/professionaldevelopment/education/foreign/pages/ecfvg-cpe-bulletin.aspx) and this CPE MOA and understand the skill requirements of the CPE prior to applying for the CPE. In this way, each candidate can begin to critically self-assess their competencies to determine those areas of weakness that require further instruction. If further instruction is required, the support and expertise of a veterinary mentor is strongly recommended prior to scheduling and attempting the CPE.

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The CPE assesses a subset of the entry-level clinical veterinary skills taught in an AVMA COE-accredited veterinary school/college. All candidates taking the CPE are encouraged to critically consider whether the education they received is sufficient to provide them with the necessary skill level to be successful perform on the CPE. For example, candidates need to have independently performed small-animal surgery and anesthesia in an instructional or clinical setting with supervision/oversight prior to attempting the CPE. Candidates who do not have hands-on independent experience in all facets of veterinary medicine, including those assessed on the CPE, are strongly encouraged to gain additional clinical instruction prior to attempting the CPE. For example, candidates could contact veterinary schools/colleges or continuing education programs to determine potential clinical training opportunities. In addition, candidates should investigate the and requirements, costs, and restrictions for foreign veterinary graduates.

A candidate preparing to take the CPE must be knowledgeable with all animal species used in this exam. Most emphasis is placed on the dog, cat, horse, and cow with a lesser emphasis on goats, sheep, and pigs. Candidates are advised to focus on these species. A candidate lacking experience working with any of these species should seek this experience before taking the CPE. This may include working with animals in a non-veterinary capacity doing such things as feeding, cleaning, exercising, restraining, grooming and routine health care (e.g., equine foot care).

Although experience gained from reading material and using audiovisual materials is helpful in preparing for the CPE, the candidate must not consider these to be a substitute for the “hands-on” clinical instructional experience outlined above.

Communication skills and service to clients are a high priority in veterinary practice in the United States and Canada. Throughout the CPE candidates will be expected to communicate clearly and effectively with a client (role played by the examiner or other site team member) in order to take an accurate history, and to communicate information to the client including clinical findings, diagnostic plans, test results and interpretation, therapeutic options, and prognosis. Other sections will require the candidate to explain findings directly to the examiner. **Lack of adequate entry-level communication skills in English (or French at the Université de Montréal, St. Hyacinthe for NEB purposes only) will negatively impact a candidate's performance on the CPE.**

Candidates with disabilities or Candidates who are pregnant and Requesting Testing Accommodations

The nature of the CPE necessitates usage of live animals. While every attempt is made by CPE personnel to use animals of mild temperament, the behavior of such animals cannot be predicted, and there is a potential hazard to candidates, particularly those who are disabled or pregnant. In addition to the trauma that may result from working with animals, particularly large animals, hazards exist for the unborn child whenever a pregnant candidate is exposed to infectious agents, inhalant anesthetics, radiation, and other agents.

Candidates requesting testing accommodations in compliance with the Americans with Disabilities Act (ADA) should refer to the Testing Accommodations procedures outlined in the CPE Candidate Bulletin (available at

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www.avma.org/professionaldevelopment/education/foreign/pages/ecfvg-cpe-bulletin.aspx; see specifically www.avma.org/professionaldevelopment/education/foreign/pages/ecfvg-cpe-bulletin.aspx#cpe-testing-accommodations).

A candidate may appeal any decision imposed under the above guidelines by presenting a written statement to the ECFVG Chair, mailing to ECFVG c/o American Veterinary Medical Association, 1931 North Meacham Rd, Suite 100, Schaumburg, IL, 60173-4360 or chairman, mailing to NEB c/o Canadian Veterinary Medical Association, 339 Booth St, Ottawa, Ontario, K1R 7K1. ECFVG candidates may also refer to the ECFVG Policies and Procedures Manual at www.avma.org/professionaldevelopment/education/foreign/pages/ecfvg-pp-toc.aspx for the ECFVG appeal procedure. Appeals may also be sent via E-mail to ECFVG@avma.org

Rules of Conduct

The ECFVG has established Rules of Conduct to govern administration of the CPE to ensure that no examinee or group of examinees receives unfair advantage on the examination, inadvertently or otherwise.

CPE site team members (i.e., coordinators, examiners, veterinary technicians, and exam assistants) monitor all sections of the CPE. If CPE site team members observe a candidate violating the Rules of Conduct or engaging in other forms of prohibited behavior during a CPE, the team members will not necessarily advise the candidate at the time of the examination but shall report such incident(s) to the ECFVG (or NEB for Canadian sites). Each report shall be fully investigated, with ECFVG or NEB making the final decision.

While not routine, ECFVG testing sites may also utilize video and/or audio recording for the purposes of test security and quality assurance. If there is a reason to believe that the integrity of the examination process is jeopardized, the ECFVG may invalidate all or any part of a CPE administration. If information indicates that continued testing would jeopardize the security of examination materials or the integrity of scores, the ECFVG reserves the right to suspend or cancel any CPE administration.

By applying to take the CPE, a candidate agrees to the following Rules of Conduct:

1. You are the person named on the CPE application.
 - a. **Admission to the CPE**—When candidates arrive at the CPE site for orientation and check in for the full CPE or to retake one or more sections, they must present a photo ID with signature. Acceptable forms of identification include the following forms of unexpired identification:
 - passport;
 - driver's license;
 - national identity card; or
 - other form of unexpired, government-issued identification.

The identification must contain both the candidate's signature and photograph. If a candidate does not bring acceptable identification, they will not be admitted to the CPE. In that event, the candidate will be required to reschedule the CPE in accordance with current ECFVG policy.

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Candidates will also be required to show photo ID each day of the examination on entry into the secure testing area. **The candidate's name as it appears on their CPE application must match the name on the form(s) of identification exactly. If a candidate's name listed on their CPE application is not correct, contact the ECFVG office immediately at ECFVG@avma.org. If you registered to take the CPE through the NEB, please contact the NEB directly at (613) 236-1162.**

2. You are not allowed to use a cell phone at any time while in the secure testing areas.
3. You will not give, receive, or obtain any form of unauthorized assistance during the testing session, including any breaks. **NOTE:** Talking to another examinee during the examination may be reported as evidence of giving, receiving, or obtaining unauthorized assistance. **Candidates may not discuss the cases with fellow examinees at any time, and conversation among examinees in any language other than English (or French at the Université de Montréal, St. Hyacinthe) is prohibited at all times. CPE site team members will monitor all examinee activity. See "Prohibited Behavior" below.**

CPE site team members are not authorized to answer questions from examinees regarding examination content or scoring.

4. You will not have in your possession any formulas, study materials, notes, papers, or electronic devices of any kind unless you are out of the secure testing areas of the CPE site.

You will not remove materials in any form (written, printed, recorded, or any other type) from the secure testing area unless instructed to do so by the examiners. You understand and acknowledge that all examination materials remain the property of the CPE site and ECFVG, and you will maintain the confidentiality of all CPE materials. You will not reproduce or attempt to reproduce examination materials through memorization or any other means, nor will you provide information relating to examination content that may give or attempt to give unfair advantage to individuals who may be taking the examination, including, without limitation, by posting information regarding examination content on the internet.

5. ***Personal Belongings***—Unless specifically authorized, candidates may not bring personal belongings into the CPE secure testing areas. Failure to follow these rules shall constitute a violation of the Rules of Conduct for the administration of the CPE and may lead to adverse action regarding a candidate's examination. For the CPE, candidates should understand that the entire testing session over the 3- to 4-day testing period, including all breaks, is considered a closed and secure testing session, and that the entire CPE site, including any on-site lunchroom, break rooms, and restrooms, is a secure testing area. Therefore, the rules regarding unauthorized possession during the CPE extend to lunch, if lunch is provided on site, and all breaks.

For the CPE, unauthorized **personal belongings** include, but are not limited to:

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- mechanical or electronic devices, cell phones, smart watches or any device with the ability to connect to the internet or store data.
- outerwear, such as coats, jackets, headwear, gloves
- backpacks, handbags, wallets
- books, notes, study materials, or scratch paper

If candidates bring any personal belongings to the CPE site, they must store them in a designated locker or storage cubicle as directed by the CPE site team. All stored mechanical or electronic devices must be turned off. Upon reasonable suspicion, a candidate's personal belongings and their contents may be inspected. Any materials that reasonably appear to be reproductions of any case material specific to the CPE will be confiscated. Making notes of any kind during the CPE, except on the materials provided by the CPE site for this purpose, is not permitted. If candidates have any questions regarding the appropriateness of personal belongings to be brought into the CPE site, contact the ECFVG or a CPE site team member prior to admission.

6. *Prohibited Behavior*—Prohibited behavior consists of any action by CPE candidates or others that subverts or attempts to subvert the examination process, including, without limitation:
- Falsification of information on the application form, including additional documentation, or failure to provide the ECFVG with information material to your application.
 - Impersonating an examinee or engaging someone else to take the examination for you.
 - Giving, receiving, or obtaining unauthorized assistance during the examination, or attempting to do so.
 - Unauthorized possession, reproduction, or disclosure of any test materials through interpersonal communication, sharing on social media, or other avenues, including, but not limited to, examination cases, before, during, or after the examination.
 - Making notes of any kind during an examination except on the writing materials provided by the CPE for that purpose.
 - Disruptive or unprofessional behavior at a CPE site.
 - Offering any benefit to any CPE site team member or agent of the ECFVG in return for any right, privilege, or benefit which is not usually granted by the ECFVG to other similarly situated candidates.

If a candidate is determined to have failed to abide by the Rules of Conduct of the ECFVG or otherwise to have engaged in any form of prohibited behavior, the CPE Site Coordinator or ECFVG staff may terminate the candidate's participation in an examination, invalidate the results of an examination, withhold, or revoke the candidate's scores or certification, bar the candidate's participation in future examinations, and/or take other appropriate adverse action. In addition, such determination shall become part of the candidate's permanent ECFVG record, and the fact of such determination may be provided to third parties that receive or have received verification of ECFVG status. Such information may also be provided to other entities.

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Candidates should understand that the ECFVG may or may not require a candidate to retake one or more portions of the ECFVG if presented with sufficient evidence that the security of the examination has been compromised, notwithstanding the absence of any evidence of a candidate's personal involvement in such activities.

Test Centers and Testing Conditions—For ECFVG candidates, the time and location for arrival at the CPE site for orientation and check-in will be sent to each candidate by e-mail prior to the administration of the examination. If a candidate arrives late, they will not be admitted and will have to reschedule the test date in accordance with current ECFVG policy.

In addition, please note the following:

- You should bring only the equipment specified for each section within this CPE MOA; all other equipment is provided at the CPE.
- You should wear comfortable, professional clothing. This includes clean scrubs, closed toe shoes and/or slacks and a top with a clean white coat.
- There are no waiting facilities for family and friends at the CPE testing site; therefore, they are prohibited from entering. Candidates should plan to meet guests elsewhere after the examination ends.
- CPE site team members (wearing name tags) will direct you throughout each day of the CPE, and candidates must always follow their instructions.

There will be an on-site orientation to each section of the CPE to acquaint candidates with specific procedures and regulations.

Once candidates enter the secure testing area of the CPE site, they may not leave that area until they are directed to do so by a member of the CPE site team. Breaks, including a lunch break, are provided. CPE site team members will direct candidates to any on-site break room and lunchrooms.

Should a candidate wish to share a concern regarding the CPE testing experience, they should alert the CPE site coordinator on their testing days or contact ECFVG directly (ECFVG@avma.org) within three weeks of the examination date.

Note: CPE Site Observers, approved by the ECFVG or NEB, may, on some occasions, be observing a CPE in progress. Other than site evaluators, they will be given no information regarding examinee identity or performance and will have no interaction with examinees.

Appeal Process—ECFVG candidates determined to have violated the Rules or Conduct or otherwise engaged in prohibited behavior may appeal the decision by following the current ECFVG Appeal Procedure available in the ECFVG Policies and Procedures Manual at www.avma.org/professionaldevelopment/education/foreign/pages/ecfvg-pp-appeal.aspx. NEB candidates must contact the NEB office.

Layout of CPE

The following seven sections make up the CPE:

General Information

- Anesthesia (AN)
- Equine Practice (EQ)
- Food Animal Practice (FAP)
- Necropsy (NEC)
- Radiology (RAD)
- Small Animal Medicine (SAM)
- Surgery (SU)

Some of the sections have multiple stations. Due to the need for rotation of candidates at different sections and stations, candidates should be aware that their exam is unlikely to follow the above sequence and should be prepared to start and progress through sections and stations within sections in any order.

Each section of the CPE *MOA* is laid out as follows:

- Day-one-readiness competencies: Outlines those skills on which the candidate will be assessed.
- Time: Defines maximum time limit(s).
- Set-up information: Provides general information to the CPE site team members and provides the candidate with a ‘picture’ of the testing environment. Included in the set-up information is a description of the:
 - Animal requirements
 - CPE Site team member requirements
 - Facilities and equipment
 - Supplies/information provided by the CPE Site team member
 - Supplies provided by the candidate
 - Special equipment or supplies specific for the section
- General Requirements of the candidate
- Overview of the sections/stations: Describes specific skills that will be required of the candidate.
- Standard scripts for the section/station.
- Assessment forms for the section/station.
- Appendices, if any, for each section.

Information for Candidates

In all examination sections, the examiners will provide the candidates with an orientation to the examination room(s), supplies and equipment, including dosages of all drugs required by the CPE. The quality of the examination facilities will be consistent with those in common use in veterinary practice in the United States and/or Canada. The examiners will provide the candidates with copies of forms included in various parts of the CPE Master MOA that are required for completion by the candidate and will provide paper for personal notes (if required).

Requirements of Candidates

The “General Requirements of the Candidate” and “Overview” paragraphs found in each section of the CPE MOA provides information that outlines candidate behavior expectations and the clinical proficiency skills expected of each candidate. The Assessment Forms provide the scoring rubric and space for the examiner’s notes.

General Information

Supplies Candidates Must Provide

Although the incidence of rabies in domestic animals within the USA and Canada is extremely low, the ECFVG strongly encourages candidates to complete rabies immunization prior to taking the CPE.

Each section of the CPE MOA lists the supplies the candidate must bring with them and have readily available:

- clean white laboratory coat
- coveralls (exception: Site specific coveralls will be provided for the necropsy section.)
- dosimeter (optional; if the candidate wishes to monitor personal levels of radiation during the examination, the candidate will provide their own dosimeter)
- penlight
- digital rectal thermometer (large and small animal)
- safety boots (exception: Site specific disposable boots or shoe covers will be provided for the necropsy section.)
- stethoscope
- wristwatch with second hand
- surgical scrubs
- pens/pencils

Assessment of Candidates

The CPE MOA specifies the knowledge and technical skills (globally referred to as clinical proficiency skills) that will be assessed during the CPE.

Other Considerations in Candidate Assessment

The term “efficiency” is an element in some of the assessments. Efficiency is a component of competency. Candidates are to be assessed on their timeliness and effective use of resources to complete a procedure.

A candidate who, in the determination of the examiner, requires an unreasonable amount of time which may jeopardize the health and safety of the animal will be penalized. The penalty leveled will impact the points assigned to the clinical skill. A candidate who cannot complete a skill or set of skills in the established maximum time allowed will be penalized and may receive no points for the station or section.

In multiple stations candidates are required perform multiple tasks. In all stations, candidates must manage their time to ensure that they complete all tasks required. Examiners are not permitted to prompt candidates through their tasks or for reminding them of their impending tasks. Candidates are fully responsible for their own completion of all tasks required to be demonstrated.

If a candidate compromises their personal safety or the safety of CPE Site team members while working with animals during the CPE (e.g., too close to the rear legs of a horse), the examiner

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may terminate the procedure. Similarly, the examiner will assist an animal if a candidate, by an act of omission or commission, puts an animal into an inhumane or life-threatening situation and the situation is not immediately corrected by the candidate. Depending upon the severity of the action, the examiner may deduct points from that skill, or the candidate may be dismissed for a dismissible event for the station.

Dismissible Event

Throughout the CPE MOA, the term ‘dismissible event’ is used to denote an action attempted, performed, or specified by a candidate that would have a high likelihood of causing injury to a patient, to the candidate, and/or to CPE Site team members. Note that ‘dismissible event’ is an assessment issued by the examiner that may terminate the examination immediately and does not necessarily imply that the action would be fatal to the patient. Correspondingly, a ‘dismissible event’ assessment is not restricted to use only in live animal situations but may also be awarded in either simulated patient encounters or written exam elements. Numerous examples of dismissible events are provided throughout different sections of the CPE MOA, but these lists are not comprehensive, and examiners may issue a ‘dismissible event’ for any action not specified in the CPE MOA that, in their discretion, has a high likelihood of injury to the patient, candidate, or CPE Site team members.

Passing Standard and Score Reporting

Most sections of the examination use a point system as outlined in the scoring rubrics of each section of the CPE MOA. Anesthesia & Surgery sections use a Pass/Fail system. A score of 60 points or greater, or a “Pass”, is required in each of the 7 sections of the CPE to pass the CPE. Candidates passing all sections of the exam will be awarded their ECFVG certificate **[or, in Canada, will be allowed to proceed to the next step leading to the Certificate of Qualification]**, provided all other documentation is complete, as determined by the ECFVG **[or NEB]** office.

Results (pass or fail only) from examinations administered at ECFVG-approved CPE sites will be reported by the ECFVG office via E-mail and through ECFVG Candidate Portal. Scores will be released within twenty (20) business days following the final day the candidate’s CPE. Scores will not be released via fax or telephone.

Scores from examinations administered at Canadian NEB-approved sites will be reported by the NEB in accordance with NEB protocols.

Candidates Not Passing CPE Section(s)

A candidate with a “fail” in four or more sections of the CPE must retake the entire CPE. A candidate with a “fail” in one, two, or three sections is allowed two additional opportunities to retake and successfully pass the failed sections if the candidate applies for retakes within 6 months of each failure and accepts one of the first available retakes offered. Failure to successfully pass the retake sections within 2 retake attempts or failure to accept one of the first available retakes will necessitate the candidate retaking the entire CPE. **(PLEASE NOTE: A candidate is allowed only two retake attempts for each failed section, regardless of whether those attempts are taken at an ECFVG- or NEB-approved CPE site. The ECFVG and NEB offices will communicate with each other regarding candidates registered in both programs.)**

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Use of Reference Material

The CPE is an examination that measures a candidate's proficiency in performing veterinary clinical skills at the level of a day one ready graduate from a COE accredited veterinary school/college. The expectation is that each candidate will demonstrate the required skill **without** the use of reference materials unless reference materials are required for a specific portion of the examination. In this case, permitted reference material is listed in the section Supplies/Information Provided by The Examiner and will be supplied by the examiner.

Common Diagnoses/Conditions

An example list of common diagnoses is maintained in the CPE Candidate Bulletin at www.avma.org/professionaldevelopment/education/foreign/pages/ecfvg-cpe-bulletin.aspx. Candidates and examiners must realize that this list is not complete and that there is no requirement that the CPE be limited to the diagnoses and conditions listed.

References for the CPE

The following reference list is not an exhaustive, comprehensive list. While experience gained from reading material is helpful in preparing for the CPE, the candidate must not consider these to be a substitute for hands-on clinical instruction and experience.

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6. Boothe, DM. Small Animal Clinical Pharmacology & Therapeutics, 2nd ed. (2012), St Louis: Elsevier).
7. Butler, JA. Clinical Radiology of the Horse, 3rd ed. (2008), Ames, IA: Wiley-Blackwell.
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9. De Lahunta, A. Applied Veterinary Anatomy, (1986), Philadelphia: Saunders.
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11. Dyce, KM. Textbook of Veterinary Anatomy, 4th ed. (2010), St Louis: Elsevier.
12. Ettinger, SJ. Textbook of Veterinary Internal Medicine, 7th ed. (2010), Philadelphia: Saunders (Elsevier).
13. Evans, HE. Miller's Anatomy of the Dog, 4th ed. (2013), St Louis: Elsevier.
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16. Frandson, RD. Anatomy and Physiology of Farm Animals, 7th ed. (2009), Ames, IA: Wiley-Blackwell.
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20. Kahn, CM. Merck Veterinary Manual, 10th ed. (2010), Whitehouse Station, NJ: Merck.
21. Kealy, JK. Diagnostic Radiology and Ultrasonography of the Dog and Cat, 5th ed. (2011), St Louis: Elsevier.
22. Knottenbelt, DC. Color Atlas of Diseases and Disorders of the Horse, (1994), St Louis: Mosby.
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25. Lavin, LM. Radiography in Veterinary Technology, 3rd ed. (2003), Philadelphia: Saunders (Elsevier).
26. Maxie, MG. Jubb, Kennedy, & Palmer's Pathology of Domestic Animals, 5th ed. (2007), St Louis: Elsevier.
27. Muir, WW, III. Handbook of Veterinary Anesthesia, 5th ed. (2013), St Louis: Elsevier.
28. Nelson, RW. Small Animal Internal Medicine, 4th ed. (2009), St Louis: Mosby (Elsevier).
29. Osborne, CA. Urinalysis: A Clinical Guide to Compassionate Patient Care, (1999), Shawnee Mission, KS: Bayer.
30. Plumb, DC. Plumb's Veterinary Drug Handbook, 7th ed. (2011), Ames, IA: Wiley-Blackwell.
31. Pugh, DG. Sheep and Goat Medicine, 2nd ed. (2012), Maryland Heights, MO: Elsevier.
32. Radostits, OM. Veterinary Medicine: A textbook of the diseases of cattle, horses, sheep, pigs and goats, 10th ed. (2007), St. Louis: Saunders (Elsevier).
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46. Wingfield, WE. Veterinary ICU Book, (2002), Jackson Hole, WY: Teton NewMedia.
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Standard Script for General Candidate Orientation to the CPE and the Examination Site

The examiner will read the following script (in quotes) to all candidates as a general orientation to the CPE and to the site. The script shall be modified to include site-specific facility or equipment restrictions. Candidates will be provided with a written copy.

“Welcome to the Clinical Proficiency Examination. My name is **[insert name]** and I coordinate the exam here at **[insert name]**. On behalf of all the examiners here, I would like to wish you each the best of luck over the next 3 days. We recognize that this can be a stressful process but please relax and do your best. You will not be asked anything that is not expected of a newly graduated, day one ready veterinarian, and hundreds of candidates before you have successfully completed the CPE and gone on to rewarding careers in veterinary medicine.

During the next three days you will participate in a comprehensive practical examination of your clinical veterinary skills.

A comprehensive schedule of the examination is included in your information packet. If you have any questions related to the schedule please ask them now, or at the end of this orientation.

If you have not already done so, please sign the registration sheet.

Let me talk for a few minutes about facilities. **[Each site will have to specifically inform candidates about break rooms, library access, available rest rooms, and access to food.]**

The **[insert name or number of room]** has been reserved as the "home base" for candidates participating in the Clinical Proficiency Examination. Feel free to work out of this room, leave materials in this room (at your own risk) and convene in this room prior to sections of the examination. Be sure that you assemble no later than the time listed on your schedule for each section of the exam. **[Each site may have to insert specific information related to candidates assembling at other locations during the exam].**

Be sure you wear your identification badge at all times in the examination and provide your number and/or name on all papers submitted during the examination. Failure to identify your work could disqualify the work from scoring.

We will address you as Doctor during the examination.

Within fifteen (15) working days following the last day of this examination, we will submit a report to the ECFVG office at the AVMA **[Canadian sites, use NEB office]**. The ECFVG **[Canadian sites, use NEB]**, will review the scores and notify each of you by E-mail and through ECFVG Candidate Portal **[Canadian sites, use by mail or E-mail]** of your final score on the CPE. Thus, it may take up to four weeks from the end of the examination until you receive your report from the ECFVG **[Canadian sites, use NEB]**.

Discussing components of your exam with other candidates while the exam is in progress is not allowed. To avoid any appearance of impropriety, all conversations must be conducted in English language while at the testing site. [Montreal test site may use French/English].

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Remember that you already signed an honor statement—an oath—that you will not discuss the exam with other candidates now or in the future. The ECFVG **[Canadian sites, use NEB]** has the right to dismiss any candidate who violates the security of this exam during the administration of the exam. If you have any questions about what you may take with you into the examination, please check with me or one of the section coordinators.

If there is a reason to believe that the integrity of the examination process is jeopardized, we will immediately notify the ECFVG **[Canadian sites, use NEB]** office. The ECFVG **[Canadian sites, use NEB]** may invalidate all or any part of a CPE administration. If information indicates that continued testing would jeopardize the security of examination materials or the integrity of scores, the ECFVG reserves the right to suspend or cancel any CPE administration.

By applying to take the CPE, you agree to the following Rules of Conduct:

1. You are the person named on your CPE application.
2. You will place in a locker or cubicle all personal belongings, including all electronic devices, formulas, study materials, notes, papers, and your purse or wallet, before you enter the secure testing areas. Lockers are available for your use and are located **[insert location of lockers for Candidates]**
3. You will not use a cell phone at any time while you are in the secure areas.
4. You will not give, receive, or obtain any form of unauthorized assistance during the testing session, including any breaks.
5. You will not have in your possession any formulas, study materials, notes, papers, or electronic devices of any kind unless you are out of the secure testing areas of the CPE site.
6. You will not remove materials in any form (written, printed, recorded, or any other type) from the secure testing area unless instructed to do so by the examiners.
7. You understand and acknowledge that all examination materials remain the property of the CPE site and ECFVG, and you will maintain the confidentiality of the case content for all seven sections of the CPE.
8. You will not reproduce or attempt to reproduce examination materials through memorization or any other means, nor will you provide information relating to examination content that may give or attempt to give unfair advantage to individuals who may be taking the examination, including, without limitation, by posting information regarding examination content on the Internet.
9. You will conduct yourself professionally with examiners and CPE site team members at all times. If you are dismissed from the exam, you must leave the testing area promptly. Otherwise, the test site may request security to escort you from the testing area. This may result in your inability to participate in other CPE section exams.

Unless specifically authorized, candidates may not bring personal belongings into secure testing areas of the CPE site. Failure to follow these rules shall constitute a violation of the Rules of Conduct for the administration of the CPE and may lead to adverse action regarding a candidate's status.

For the CPE, candidates should understand that the entire testing session over the 3-day testing period, including all breaks, is considered a closed and secure testing session, and that the entire

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CPE site, including any on-site lunchroom, break rooms, and restrooms, is a secure testing area. Therefore, the rules regarding unauthorized possession of materials during the CPE extend to the scheduled lunch break, and all breaks.

All CPE site team members will be monitoring all sections of the CPE. If a CPE site team member observes a candidate violating the Rules of Conduct or engaging in other forms of prohibited behavior during a CPE, that person will report such incidents to the ECFVG ***[Canadian sites, use NEB]***. Each report shall be fully investigated.

As a CPE site, we have an obligation to administer the examination as described in the Manual of Administration. If at any point you believe that an examiner has asked you to do something that is not in the MOA, you should perform the task to the best of your ability. Afterward, inform either myself ***[or insert names and introduce any appropriate CPE site team members]*** of the issue. You should perform the task to the best of your ability because it is possible that you misread or misinterpreted the MOA. You should let us know so we can investigate your concerns and make a determination. It is certainly possible for an examiner to misread or misinterpret something in the MOA and in that case we will not allow that to impact your scores on the CPE.

As I said at the beginning, we recognize that this is a stressful process. The examiners will do everything they can to minimize this stress. Do not allow a simple mistake to diminish your performance on the rest of the exam. No one has ever made a perfect score on this examination; everyone makes mistakes. When you make a mistake, put it behind you and continue to perform at your best throughout the remainder of the exam.

Good luck, do your best!

Any questions?"

ANESTHESIA

Competencies

- Perform a physical exam and assign an ASA status to your patient
- Select, assemble, and use appropriate anesthetic equipment and accessories.
- Induce, intubate and maintain general anesthesia in a canine patient.
- Monitor and maintain a patient under general anesthesia
- Discuss recovery of the patient from anesthesia, to include postoperative pain management.
- *Note: the veterinary team on site will administer the premedication. Candidates will receive written confirmation of the pre-medication drugs used, route of administration and the time the pre-medication was administered for your Anesthesia record which must be recorded appropriately.*

Time

- The total time required for any candidate from beginning to end of the live AN station assessment may be up to 4hrs. The candidate will be given 90-minutes (1 hour and 30 minutes) from the start of the candidate initiating the anesthesia section tasks (e.g., “Performing physical exam, assigning ASA, select, assemble, and use appropriate anesthetic equipment and accessories”) to have the patient anesthetized and ready for surgical preparation. This means that all tasks outlined in the MOA are complete and the dog’s airway is secure (intubated with endotracheal tube secured appropriately); the dog is connected to the anesthetic machine with inhalant anesthetic started at an appropriate level; a functional/patent IV catheter is in place and appropriately secured and IV fluids are started; the dog is at a suitable plane of anesthesia for surgical preparation to begin; and the candidate has begun initial monitoring of the patient. Required monitoring equipment can be placed after the 90-minute limit. However, the candidate must still monitor the patient appropriately (assessment of cardiovascular and respiratory status and depth of anesthesia) during this peri-induction period. Candidates who exceed the 90-minute maximum for these activities/skills will be immediately dismissed from, and receive a failing score for, this section of the CPE.
- Candidates completing all necessary tasks in less than 90 minutes should tell the examiner that they have completed all tasks and are ready for the surgeon
- Once the surgical procedure begins, the Anesthesia candidate will continue to be assessed on the maintenance phase of anesthesia and recovery of the patient. The Anesthesia assessment will end once the surgical candidate has removed the first ovary. The anesthesia candidate must continue to monitor the patient until the Anesthesia examiner excuses them.

Set-up Information

1. Animal Requirements— One female dog per candidate, body weight, 6-28 kg, BCS within 2-4 out of 5, not visibly or palpably pregnant, not visibly in heat (i.e., no visible external evidence of bloody vaginal discharge), acceptable anesthetic risk based on physical examination.

2. CPE Site team member Requirements (minimum)
 - i. One veterinary examiner per 3 candidates
 - ii. One Exam assistant or veterinary technician per 2 candidates
 1. Once the anesthesia candidate's assessment is complete (e.g., first ovary has been removed), then exam assistant or veterinary technician will assume anaesthetist role for duration of the procedure.
3. Facilities and Equipment—Facilities and Equipment for Anesthesia and Surgery are the same.
 - a. Rooms (or areas) equipped for the preparation of animals for surgery.
 - b. Rooms (or areas) equipped to carry out the required surgical procedure.
 - c. Timing device visible from each station to track examination time. Whenever possible, timers will be of the “count-down” variety to allow candidates and examiners alike to clearly see time remaining in station or section.
4. Supplies/Equipment/Accessories Provided by The CPE Site
 - a. Standard anesthetic machines (each machine to have a precision isoflurane or sevoflurane vaporizer which is temperature and flow compensated and its own oxygen supply; availability of specific vaporizer dependent on site of examination administration).
 - b. Rebreathing and non-rebreathing systems.
 - c. Standard anesthetic and monitoring accessories such as esophageal stethoscope, Doppler or oscillometric blood pressure monitoring equipment (either one or the other will be provided, dependent on CPE site), thermometer and/or electronic monitoring equipment, endotracheal tube, laryngoscope (different blade sizes), intravenous catheters, IV fluids, pulse oximeter, capnograph.
 - d. Scratch paper and nonprogrammable basic calculator for drug dose calculations.
5. Supplies Provided by the Candidate
 - a. Stethoscope, wristwatch with a second hand, clean laboratory coat, surgical scrubs
6. Anesthetic Drugs
 - CPE site teams will administer the premedication to all patients. Candidates will receive, in writing, the medications administered, site of administration and the time it was given for their Anesthesia records.
 - The following induction agent and inhalant anesthetics will be used:
 - Induction
 - Propofol (all sites)
 - Dosage 4-6 mg/kg
 - Concentration 10 mg/ml
 - Inhalant
 - Sevoflurane (Viticus Group, Las Vegas)
 - Isoflurane (all other sites)

General Requirements of the Candidate

The Anesthesia and Surgery Sections of the CPE will be administered at the same time. The anesthesia candidate will anesthetize, stabilize, and monitor the animal while the surgery candidate, or another person designated by the site, performs an ovariohysterectomy.

Candidates are expected to handle all animals in a humane and safe manner. If, in the opinion of the examiner, the candidate does not handle the animal humanely or handles the animal in a manner that is unsafe to them or other CPE site team members the examiner may assess penalties ranging from a reduction in score to termination of the exam and dismissal of the candidate.

The Anesthesia Section is scored as Pass or Fail. Candidates receiving a **Failing** evaluation for anyone (1) **Major** skill or any combination of four (4) **minor** skills as noted on the Anesthetic Skills Assessment Sheet (AN01) may be allowed to complete the examination but will receive a **Failure** for the Anesthesia Section. Candidates committing a Dismissible Event (see Appendix 1 in this section of the MOA for examples of Dismissible Events) as determined by the examiner will be immediately dismissed from, and will receive a failing score for, this section of the CPE. Candidates must also note that there are many factors that go into the pass/fail decision in this section. Successful entry-level performance of the skills assessed in the Anesthesia Section involves much more than having the patient survive the anesthesia—in other words, more than getting through the procedure without being dismissed for committing a Dismissible Event.

The examiner will assist an animal and terminate the Anesthesia Section if a candidate by an act of omission or commission puts an animal into an inhumane or life-threatening situation and the situation is not corrected by the candidate (Examples of Dismissible Events include but are not limited to; please see Appendix 1 in the Anesthesia Section of the CPE MOA). Examples of life-threatening situations include but are not limited to esophageal intubations that are unrecognized and uncorrected by the candidate, failure to open the pop-off valve, and failure to adjust the depth of anesthesia to an appropriate level. Such errors may be considered Dismissible Events. In the case of a Dismissible Event, the examiner will document and verify the error, correct it, and ask the candidate to leave the Section immediately. The candidate will receive a failing score for the Anesthesia section regardless of the score accumulated at the point of termination.

Overview of the Anesthesia Section

Anesthetic Procedure:

Physical exam and assign ASA, selection and set-up of anesthetic equipment; induction, intubation, and initiation of Inhalant Anesthesia; and initial patient monitoring (90-minute time limit; time begins after all instructions have been read and when candidates receive their dog):

1. *Physical exam and ASA Status: Candidates will perform a physical exam on their patient and assign an ASA. Once the exam is complete, the patient will be taken by the CPE site team members and the premedication will be administered. Candidates will receive, in writing, the premedications administered and the time it was given to include in their Anesthesia record.*

2. *Selection and set-up of anesthetic equipment*—the candidate will **determine and record** fresh gas flow rates for the patient; **select** other accessories (e.g., endotracheal tube) appropriate for the patient; **choose and attach appropriate breathing system to machine**, systematically **check** the assembly and operation of the anesthetic equipment; and verbally **explain or describe** the assembly and operation of the anesthetic equipment to the examiner. To ensure standardization of all tasks to be completed within the 90-minute time limit across all sites, candidates must explain or describe the assembly and operation of the anesthetic equipment to the examiner within the 90-minute time period. Candidates will need to request an examiner's presence to perform this task. Excessive time spent waiting for an available examiner must not be counted against the candidate.
3. *Induction, intubation, and initiation of inhalant anesthesia*—The candidate will **place an IV catheter and administer induction agent. (Note: all sites will provide Propofol which has been calculated at 4-6mg/kg (10mg/ml) for each patient).** Within 5 minutes of the start of administration of the induction agent, the candidate will **intubate** the patient, secure the endotracheal tube, appropriately inflate the cuff, and connect the endotracheal tube to the anesthetic machine with inhalant anesthetic and fresh gas flow rates set at appropriate levels to bring the patient to a surgical plane of anesthesia. Failure to complete all those tasks within the 5-minute limit will result in immediate dismissal of the candidate and a failing score for the Anesthesia Section. The volume of propofol given must be included on the patient record.
4. *Initial patient monitoring*—The candidate will **begin initial monitoring of the patient within 3 minutes of intubation** (i.e., assessment of cardiovascular and respiratory status and depth of anesthesia) and **record findings** on the Anesthesia Record.
5. *Administration of IV fluids*- select the appropriate type of IV fluids, connect these to patient aseptically and begin appropriate flow rate.

All above tasks (1-5) must be completed within **90 minutes**. To avoid unnecessary prolongation of anesthesia of the patient, the candidate **should** indicate they are ready for the surgery candidate to begin patient preparation if they have completed the above tasks (1-5) in less than 90 minutes.

Please note: when an anesthesia candidate calls for the surgery candidate, this is an indication they have completed tasks 1-5 above. Failure to complete tasks 1-5 above in the 90-minute time limit will result in immediate dismissal of the anesthesia candidate and a failing score for the Anesthesia Section.

6. *Maintenance (2.5 hour time limit, with actual time dependent on surgery candidate)*—As soon as possible after calling for the surgery candidate, the candidate will apply the remaining monitoring equipment, which includes placement of ECG

leads, a blood pressure monitor, pulse oximeter, thermometer, and capnograph, to the patient; maintain and monitor the animal in a surgical plane of anesthesia during the ovariohysterectomy; record findings and other information on the anesthetic record (Appendix 3) in a timely manner (e.g., every 5-10 minutes); be able to explain to the examiner what parameters they are monitoring and how they are monitoring those parameters; interpret their assessment of patient parameters and monitoring equipment readouts for that specific patient; correct any abnormalities as assessed during monitoring; and be able to explain why corrections were or were not made. Please note results, interventions, and any other comments must be recorded as soon as assessments are made. A candidate's score will be negatively impacted if she/he does not complete the Anesthesia Record in real time.

If a candidate believes that a piece of equipment is malfunctioning, the candidate must immediately bring this concern to the examiner's attention. The examiner will determine if the concern is valid and, if so, take appropriate remedial action. If a candidate believes that a piece of equipment was malfunctioning, that the issue was not appropriately corrected after alerting the examiner, and the malfunctioning equipment had the potential to affect the outcome of the candidate's assessment, then the candidate must document the issue immediately upon the conclusion or termination of the exam using the 'Anesthesia Equipment Incident Report' in Appendix 4. Failure to file an Anesthesia Equipment Incident Report may result in the denial of an appeal of the examination result based upon a claim of faulty equipment.

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Assessment:(1) **Major** skill failure or any combination of four (4) **minor** skill failures will result in a **Failure** for the Anesthesia Section. A candidate that commits a Dismissible Event may be dismissed from the section and will also receive a **Failure** for the Anesthesia Section.

Candidate Name/ID:

Date/Session/Site:

Examiner:

MASTER ASSESSMENT FORM(PAGE 1)	
ACTIVITY/SKILL Candidate is assessed on ability to correctly and efficiently:	CANDIDATE SCORE <i>Note: (1) MAJOR skill failure or any combination of four (4) MINOR skill failures will result in a FAILURE for the Anesthesia Section. Candidates committing a Dismissible Event (see below & Appendix 1 in this section of the MOA) will be immediately dismissed from, and will receive a failing score for, this section of the CPE.</i>

AN01 ASSESSMENT, Anesthetic Skills*Anesthesia***Candidate Name/ID:****Date/Session/Site:****Examiner:**

ACTIVITY/SKILL Candidate is assessed on ability to correctly and efficiently:	CANDIDATE SCORE
<i>Perform physical exam, Assign ASA to the patient.</i>	<i>MINOR SKILL</i>
<i>Request, record, and interpret results of minimum required laboratory tests</i>	<i>MINOR SKILL</i>

Candidate Name/ID:

Date/Session/Site:

Examiner:

ACTIVITY/SKILL	CANDIDATE SCORE
Candidate is assessed on ability to correctly and efficiently:	
<i>Calculate appropriate fresh gas flow rates and explain rationale for selecting a given rate for the breathing system selected</i>	MAJOR/MINOR SKILL) • MINOR SKILL FAILURE if candidate calculates fresh gas flow too high. • MAJOR SKILL FAILURE if candidate calculates fresh gas flow is too low. •
<i>Select appropriate breathing system and reservoir bag</i>	MINOR SKILL

Candidate Name/ID:

Date/Session/Site:

Examiner:

ACTIVITY/SKILL	CANDIDATE SCORE
Candidate is assessed on ability to correctly and efficiently:	
<i>Assemble and explain assembly of anesthetic machine and breathing system</i>	<i>MAJOR/MINOR SKILL</i>
<i>Test anesthetic machine circuit for leaks</i>	<i>MAJOR/MINOR SKILL</i> • <i>MINOR SKILL FAILURE .</i> • <i>MAJOR SKILL FAILURE</i>

Candidate Name/ID:

Date/Session/Site:

Examiner:

ACTIVITY/SKILL	CANDIDATE SCORE
Candidate is assessed on ability to correctly and efficiently:	
<i>Place and secure an IV catheter</i> <i>Note: If either of the two scenarios below should occur, the examiner or technician will place and secure a new IV catheter and the time required to do so will not count against the 90-minute time limit.</i> <i>If the candidate is unable to place the IV catheter in three attempts</i> <i>If a correctly placed catheter becomes dislodged following placement</i>	<u>PLACE IV CATHETER</u> MAJOR/MINOR SKILL, WITH SCORE IMPACTED AS INDICATED BELOW.) • ONE MINOR SKILL FAILURES if candidate is unable to place the IV catheter in three attempts because of a patient factor. • TWO MINOR SKILL FAILURES if candidate correctly places the IV catheter in three attempts but it becomes dislodged thereafter because they did not secure it appropriately. • TWO MINOR SKILL FAILURES if candidate is unable to place the IV catheter in three attempts because of poor technique or inability to locate an appropriate vein. • ONE MINOR SKILL FAILURE if candidate has minor breaks in asepsis during placement of IV catheter (e.g., minor touch of catheter hub). • MAJOR SKILL FAILURE IF CANDIDATE DECLINES 1 OF THEIR 3 ATTEMPTS AT CATHETER PLACEMENT, INCLUDING REPLACEMENT OF A CATHETER THAT BECOMES DISPLACED DUE TO CANDIDATE ERROR, SUCH AS POOR SECUREMENT EXAMPLES OF DISMISSIBLE EVENT INCLUDE: • if candidate attempts to place or places the catheter in a non-aseptic manner or commits gross breaks in asepsis (e.g., placing opened catheter on table) or candidate persists with a dog that is inadequately premedicated
ACTIVITY/SKILL	CANDIDATE SCORE
Candidate is assessed on ability to correctly and efficiently:	

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Induce and intubate patient</i>	<u>MINOR SKILL OR DISMISSIBLE EVENT</u> • <u>MINOR SKILL FAILURE</u> if candidate fails to assess catheter placement prior to injection of induction agent. <u>EXAMPLES OF DISMISSIBLE EVENT INCLUDES:</u> • <u>DISMISSIBLE EVENT</u> if candidate intends to administer a potentially harmful overdose of any drug. • <u>DISMISSIBLE EVENT</u> if candidate makes repeated unsuccessful attempts at intubation in an insufficiently anesthetized dog (i.e., a dog with active laryngeal reflexes). • <u>DISMISSIBLE EVENT</u> if candidate fails to complete the following within 5 minutes of initiation of administration of induction agent: intubate the patient, assess that the tube is placed correctly, appropriately inflate cuff, secure endotracheal tube, and connect patient to the anesthetic machine • <u>DISMISSIBLE EVENT</u> if candidate does not appropriately intubate dog (e.g., tube too small or too large; cuff not inflated appropriately (i.e., cuff does not prevent leak up to 20 cm H₂O); tube not secured appropriately). • <u>DISMISSIBLE EVENT</u> if candidate fails to recognize endotracheal tube is placed incorrectly and dog is either not receiving gas because tube is in esophagus; dog is being injured, in the examiner's opinion, because of excessive inflation of the cuff or tube grossly too large; gas is being released because tube is grossly too small, or cuff not inflated; or tube dislodges because it was not secured appropriately.
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AN01 ASSESSMENT, Anesthetic Skills*Anesthesia***Candidate Name/ID:****Date/Session/Site:****Examiner:**

<i>Place/position pulse oximeter</i>	<i>MINOR SKILL</i>
<i>Place/position capnograph</i>	<i>MINOR SKILL</i>
<i>Transfer patient to surgery area</i>	<i>MINOR SKILL</i> <i>DISMISSIBLE EVENT IF PATIENT WAKES UP DURING TRANSFER AND CANDIDATE DOES NOT RESPOND APPROPRIATELY</i>

Candidate Name/ID:

Date/Session/Site:

Examiner:

ACTIVITY/SKILL	CANDIDATE SCORE
Candidate is assessed on ability to correctly and efficiently:	
<i>Monitor / assess depth of Anesthesia and adjust anesthesia as necessary during the surgical procedure. Including monitoring/assessing and recording patient's cardiovascular and respiratory status, to include correcting any significant abnormalities</i>	MAJOR SKILL EXAMPLES OF DISMISSIBLE EVENT INCLUDE: • Maintaining a volatile anesthetic agent flow rate at a high level for extended period of time leading to prolonged hypotension and/or hypercapnea. • Failure to identify and correct a potentially life-threatening or inhumane situation (e.g., patient wakes up during anesthesia section or during the surgical procedure and candidate does not respond to situation. • Candidate is unable to manage cardiovascular or respiratory status in a timely fashion such that the animal's welfare may be adversely impacted (e.g., Unresolved hypotension, significant arrhythmias, unresolved hypercapnea)

Candidate Name/ID:

Date/Session/Site:

Examiner:

ACTIVITY/SKILL	CANDIDATE SCORE
Candidate is assessed on ability to correctly and efficiently:	
<i>Request adequate analgesia for the patient throughout the surgical procedure as needed and for the immediate post-operative period.</i>	<i>MAJOR SKILL</i> Example of Dismissible Event includes: Candidate does not react to clinical signs of pain or nociception (tachycardia, tachypnea, increase in blood pressure, etc.) in a timely manner. If examiner has to add any pain medication for a humane reason, the candidate should be dismissed from the exam.

AN01 ASSESSMENT, Anesthetic Skills*Anesthesia***Candidate Name/ID:****Date/Session/Site:****Examiner:**

<i>Answer questions regarding specific values for the patient from anesthetic or monitoring equipment</i>	<i>MINOR SKILL</i>
<i>Completely and accurately fill out Anesthesia Record contemporaneously Including premedication drugs, route and time of administration and amount of induction agent (Propofol) utilized.</i>	<i>MINOR SKILL</i>

Candidate Name/ID:

Date/Session/Site:

Examiner:

CANDIDATE IS ALSO ASSESSED ON:	CANDIDATE SCORE
<i>Humane handling of the patient</i>	MAJOR SKILL EXAMPLE OF DISMISSIBLE EVENT INCLUDES: Any act of omission or commission that puts an animal into an inhumane or life-threatening situation and the situation is not corrected by the candidate
<i>Ability to communicate with assistant(s)</i>	MINOR SKILL
FINAL ANESTHESIA SECTION SCORE (PASS OR FAIL): A FAILING evaluation for anyone (1) MAJOR skill or any combination of four (4) MINOR skills will result in a FAILURE for the Anesthesia Section. Candidates committing a Dismissible Event will be immediately dismissed from, and will receive a failing score for, this section.	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ **Initials:** _____

Signature: _____

Anesthesia Appendices

Appendix 1—Dismissible Event List

These are examples of some but not all failing behaviors that potentially put the animal's life at risk or CPE site team members in danger. All are behaviors that may require examiner intervention and will result in a failing grade for the candidate and dismissal from this section of the CPE. The examiner will stop the Anesthesia Section immediately if any one behavior from the following Dismissible Event list is observed (i.e., recognized by the examiner and confirmed by another examiner or observer):

1. Candidate attempts to place or places the catheter in a non-aseptic manner or commits gross breaks in asepsis (e.g., placing opened catheter on table)
2. Candidate makes repeated unsuccessful attempts at intubation in an insufficiently anesthetized dog (i.e., a dog with active laryngeal reflexes). Candidate should be able to intubate patient within five (5) minutes of initial administration of induction agent
3. Candidate places the endotracheal tube in the esophagus and fails to correct in a timely fashion (i.e., before dog wakes or becomes apparently hypoxic).
4. Candidate leaves the pop-off closed until pop-off valve pressure reads 25 cm H₂O
5. Candidate sets flow of oxygen at an insufficient level such that dog either awakens or becomes apparently hypoxic
6. Candidate maintains volatile anesthetic agent flow rate at a high level for extended period of time leading to loss of peripheral pulses (dorsal pedal or lingual pulse) or prolonged (> 3 minutes) apnea.
7. Candidate fails to identify and correct a potentially life-threatening or inhumane situation (e.g., patient wakes up during anesthesia section, transfer to surgery suite, or during the surgical procedure and candidate does not respond to situation; candidate does not attempt to correct problems associated with major hemorrhage/hypovolemia).
8. Candidate fails to have all tasks completed with the dog ready for the surgery candidate in the 90(ninety)-minute time limit ("ready for surgery candidate" means all tasks outlined in the MOA are complete and the dog is intubated and anesthetized with IV fluids in place and operating/running).
9. Candidate exhibits any other behavior that would put the dog's life at risk. The examiner must document the behavior.
10. Candidate fails to correctly assemble anesthetic machine to allow effective and safe delivery of gas anesthetic.

All Dismissible Events **must** be documented on the candidate's assessment sheet by the examiner and verified by a secondary examiner/CPE team member.

Appendix 2—Preanesthetic Physical Status

American Society of Anesthesiologists (ASA) Classification System

- ASA Status 1: Normal, healthy patient
- ASA Status 2: Mild systemic disease, well compensated
- ASA Status 3: Moderate systemic disease that is ongoing but compensated; some functional limitations exist that increase the risk of anesthesia
- ASA Status 4: Severe systemic disease that is a constant threat to life, uncompensated disease, high anesthetic risk because vital body systems involved
- ASA Status 5: Moribund patient not expected to live more than 24 hours with or without surgery

CPE DATE/SESSION/SITE:

CANDIDATE NAME/NUMBER:

DOG ID:

INFORMATION TO BE PROVIDED TO CANDIDATE AT BEGINNING OF EXAM:

Weight of dog:

Approximate age (estimated by examiner/tech):

Pre-existing medication or medical conditions

APPENDIX 3 – ANESTHESIA RECORD (PAGE 1)

CPE DATE/SESSION/SITE:

CANDIDATE NAME/NUMBER:

DOG ID:

PRE-ANESTHETIC ASSESSMENT (*candidate to write findings below unless otherwise noted*)

Weight (provided by examiner/tech):

HR:

RR:

MM color/CRT:

Temp:

Other relevant preanesthetic PE findings, if any:

LABORATORY RESULTS:

PCV:

TP:

BUN:

Other relevant preanesthetic lab results, if any:

PRE-EXSISTING MEDICATION AND MEDICAL CONDITIONS (*provided by examiner*)

PREANESTHETIC PHYSICAL STATUS (*as determined by candidate after completing preanesthetic examination; circle one*):

1

2

3

4

5

APPENDIX 3 – ANESTHESIA RECORD (PAGE 2)

CPE DATE/SESSION/SITE:

CANDIDATE NAME/NUMBER:

Anesthetic Drug Protocol Plan:

Write drug dose (mg and volume), and route of administration; attach dose calculation scratch sheet as necessary:

Premed(s): (Provided by CPE Site)

Drug:	Concentration:	Dose:	Volume:	Route:
-------	----------------	-------	---------	--------

Drug:	Concentration:	Dose:	Volume :	Route:
-------	----------------	-------	----------	--------

Drug:	Concentration:	Dose:	Volume:	Route:
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Induction agent(s): Record amount given to patient

Drug: Propofol	Concentration: 10mg/ml	Volume:	Route: IV
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Analgesics Administered by during surgery (if applicable) :

Drug:	Concentration:	Dose:	Volume:	Route:
-------	----------------	-------	---------	--------

Intravenous Fluid Therapy:

Name:	Rate:
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APPENDIX 3 – ANESTHESIA RECORD (PAGE 3)

CPE DATE/SESSION/SITE:

CANDIDATE NAME/NUMBER:

Circle appropriate number regarding sedation and induction of your patient, and provide comments as appropriate:

Scale: 1=very poor; 5= excellent

Sedation quality: 1 2 3 4 5

Induction quality: 1 2 3 4 5

Comments:

Circle inhalant anesthetic agent used:

Isoflurane

Sevoflurane

Circle anesthetic machine type used:

Rebreathing

Non-rebreathing

Endotracheal tube used (*write size*):

Fresh gas flow rate used (*write rate*):

Candidate to complete all appropriate portions of anesthetic chart on next page.

Request additional pages as needed.

APPENDIX 3 – ANESTHESIA RECORD (PAGE 4)

Premedication- Given by Veterinary Team and recorded in patient file above.				Induction Drug & Volume Used Fill in above:							
Anesthetic Induction Time:				Procedure start:				Dog Bodyweight:			
Heart Rate = ● Respiratory Rate = ○ Systolic Blood Pressure = ∨ Diastolic Blood Pressure = ^ Mean Blood Pressure = —											
Time											
200											
190											
180											
170											
160											
150											
140											
130											
120											
110											
100											
90											
80											
70											
60											
50											
40											
30											
20											
10											
0											
Isoflurane (%) or Sevoflurane (%)											
Oxygen Flow (L/min)											
End Tidal CO ₂											
Pulse Oximetry SPO ₂											
Temperature											
Fluid rate (ml/hr)											
Total Fluid volume given (mls)											

Notes:

APPENDIX 3 – ANESTHESIA RECORD (PAGE 5)

CPE DATE/SESSION/SITE:

CANDIDATE NAME/NUMBER:

(candidate to fill out each section below)

Complications noted and how corrected; if no complications noted, state so:

Fluids (write type used, flow rate, and total volume):

Recovery instructions, to include any instructions for use of analgesics:

Candidate Signature:

Appendix 4—Anesthesia Equipment Incident Report

Anesthesia Equipment Incident Report

Briefly describe any anesthesia equipment related incidents (i.e., malfunction) that occurred that may have affected the outcome of your examination.

Candidate Notes:

Candidate Number:

Candidate signature, date:

Examiner Notes:

Examiner Name (print):

Second Examiner Name:

Examiner signature, date:

Second Examiner Signature:

EQUINE PRACTICE

Competencies

The equine portion will assess the candidate's ability to:

- Evaluate a clinical case (Station 1: Clinical Evaluation)
- Perform and/or discuss designated clinical techniques (Station 2: Clinical Techniques)
- Evaluate lameness (Station 3: Lameness Evaluation)

Time

Maximum time, 2.25 hours (45 minutes per station)

Set-up Information

- Animal Requirements
 - a. Station 1: Clinical Evaluation: One horse of mild temperament, sedated as necessary; the horse may or may not have abnormal clinical signs. If a healthy horse is used, management advice will be sought on three of the following five scenarios chosen by the examiner:
 - i. Feeding/housing
 - ii. Vaccination
 - iii. Deworming
 - iv. Dental care
 - v. Foot care
 - b. Station 2: Clinical Techniques: One normal horse of mild temperament, sedated as necessary
 - c. Station 3: Lameness Evaluation: One horse affected with a common lameness (e.g., American Association of Equine Practitioners [AAEP] Grade 3/5). Alternatively, a video of a horse with a lame limb may be used in combination with a live horse for demonstration of physical examination skills and techniques. Lameness must be detectable at a trot in a straight line.
- People Requirements
 - a. One veterinary examiner per candidate at each station.
 - b. One assistant per candidate as needed. Please note: assistant means an unskilled assistant. Candidate must direct activity of the unskilled assistant. The examiner may act as an unskilled assistant where appropriate.
- Facilities and Equipment
 - a. 1 room/area for clinical evaluation station (Station 1)
 - b. 1 room/area for clinical techniques station (Station 2)
 - c. 1 area to evaluate a horse's gait and to perform a lameness examination, or video monitor to display pre-recorded videos of lame horses + room/area for physical exam of live horse (Station 3)

- d. Timing device visible from each station to track examination time. Whenever possible, timers will be of the “count-down” variety to allow candidates and examiners alike to clearly see time remaining in station or section.
- The candidate is expected to have the following supplies:
 - a. Stethoscope
 - b. Digital rectal thermometer
 - c. Penlight
 - d. Coveralls
 - e. Safety boots (i.e., appropriate footwear for equine work).
- All other items necessary to complete the exam will be provided by the examining site, including the following:
 - a. Halter, lead rope, lead shank, assorted twitches, towels, tape measure.
 - b. Assortment of needles, syringes, vacutainers, and disinfectants (alcohol, chlorhexidine, etc), gauze sponges.
 - c. Assorted dental rasps (floats), assorted mouth gags and speculae, flashlight.
 - d. Assorted nasogastric tubes, lubricant, bucket, mineral oil, funnel, dose syringe, stomach pump.
 - e. Assorted bandages.
 - f. Injectable saline, assorted sedatives, and dosages (xylazine, acepromazine, detomidine, romifidine, etc)
 - g. Rebreathing bag, plexor, pleximeter, ophthalmoscope
 - h. Hoof pick, left- and right-handed hoof knives, assorted hoof testers

General Requirements of the Candidate

Candidates are expected to handle all animals in a humane and safe manner. If, in the opinion of the examiner, the candidate does not handle the animal humanely or handles the animal in a manner that is unsafe to them or other CPE Site team members the examiner may assess penalties ranging from a reduction in score to dismissal of the candidate and a score of zero for the station.

Candidates will not necessarily be informed of a failure unless their actions comprise an immediate real threat to the health or safety of a live animal or person. In such instances, the candidate's performance will be terminated, and the candidate will be instructed to proceed to the next skill or activity at that station. If the candidate's actions constitute a repeated or ongoing threat to an animals' or persons' well-being, the candidate may be dismissed from the station. In instances where a candidate earns a failing score for a plan or action that would likely cause serious harm if it were followed but no immediate real threat to a live animal or person exists, the candidate will be allowed to proceed without being informed of the failing score. A candidate that has been awarded a failing score at any Station for the reasons described will fail the entire Equine section but will not be prevented from taking the other stations of the Equine section.

Station One–Clinical Evaluation

Overview of Station One—When possible, a CPE site team member will act as the client, with an adult horse that is affected with a condition commonly found in veterinary practice. If a CPE site team member is not available, the examiner will act as the client. The candidate should:

- Catch and restrain the horse in a box stall with a halter and lead rope. The examiner or other assistant may assist the candidate, but the candidate must give specific instructions for assistance
- question the client/examiner to determine the medical history of the patient
- perform a systematic distance examination and a physical examination
- develop an initial problem list and a differential diagnoses list
- request appropriate and reasonable diagnostic tests
- interpret the results of diagnostic tests
- determine the most likely diagnosis based upon history, physical examination, and diagnostic test results
- develop a therapeutic and/or management plan specific for the patient and/or the herd
- develop a prognosis for the patient
- identify prevention and control issues
- orally communicate all of the above information to the client/examiner

(Note—See also the EQ01 assessment sheet that follows)

Standard Script for Station One

—Prior to beginning this station, the examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. Timing of the candidate's performance should not begin until all of the instructions have been given. "In this station you will be the veterinarian called to examine the horse in front of you. I will be acting as the client (if examiner is acting as client, if not introduce the CPE site team member). Please obtain a complete history from me. Then, perform a complete physical examination and explain all normal and abnormal findings to me. If you believe a rectal examination is indicated, you may request one and I will provide you with any information obtained from the rectal examination. You may record the history and physical exam findings yourself, using this sheet [], but you should discuss your findings with me as my assessment of your performance will not include what is written on this form. Based upon the history and physical examination, you should generate a problem list, create a list of differential diagnoses, and determine the most likely diagnosis. Then, develop a diagnostic plan. You may request laboratory test results from me, and I will supply those results if those tests were completed. Develop a complete therapeutic and/or management plan for this animal (and/or the herd, if relevant) and discuss the plan and any prevention or control issues with me that you feel are necessary. You may record your findings and concerns on a sheet provided but the information recorded will be for your use only. Your performance will be entirely assessed by your oral communication of your findings and concerns with me (the client). You will have 45 minutes to complete this station, and you are responsible for monitoring your time remaining."

for Equine Practice—Station One (EQ01)

Examiner:

Examiner:

[illegible]

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Restraint and Safety Candidate is scored on ability to halter and restrain a horse, including physical and/or chemical means if necessary. A candidate may receive assistance by specifically instructing the client or technician on safe handling techniques.	5	

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Physical Examination Candidate is scored on ability to accurately perform:	33	
<i>a. Distance examination</i>		
<i>b. Body condition score</i> •		
<i>c. Objective measurements</i> •		
<i>d. Head and neck</i> •		
<i>e. Heart</i> •		
<i>f. Lungs and trachea</i> •		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
g. <i>Gastrointestinal</i> •		
h. <i>Musculoskeletal</i> •		
i. <i>Integument</i> •		
j. <i>Perineum and external genitalia</i> •		
k. <i>Physical exam directly related to the presenting complaint</i> •		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Integration of Clinical Information	15	
<i>a. Correctly identify and communicate all problems, based upon history and physical exam findings</i>		
<i>b. Develop and communicate a rational differential diagnoses list based upon history and physical exam</i>		

Examiner:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Integration of Diagnostic Information	12	
a. Develop a diagnostic plan - Order appropriate diagnostic tests and/or necropsy		
b. Interpret laboratory and/or necropsy results - Uses diagnostic test results to refine the differential diagnoses list and describes how each test is used to rule in or rule out a diagnosis		
c. Arrive at the most likely diagnosis		
<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE

Candidate Name/ID:

Date/Session/Site:

Examiner:

Develop therapeutic or management plan for individual animal/herd (if appropriate)	5	
<i>a. Developing a therapeutic plan specific for the patient (or herd), to include addressing treatment and appropriate follow-up. The candidate should also address prevention and control issues.</i>		
<i>b. Developing the appropriate prognosis</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Communication	10	
<i>a. Communicate clearly and effectively using language that might be readily understood by a client</i>		
<i>a.</i>		
<i>b. Answer all questions correctly and appropriately</i>		
<i>a.</i>		
TOTAL POINTS	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):Name (print): _____ Initials: _____

Signature: _____.

Station Two—Clinical Techniques

Overview of Station Two— Given a horse of mild temperament, the candidate will be expected to complete 8 skills commonly utilized in equine practice.

Standard Script for Station Two—Prior to beginning this station, the examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. The time should not begin until all of the instructions have been given. “In this Clinical Techniques Station, you will use this horse to perform 8 standard equine clinical procedures. You should explain to me what you are doing as you are demonstrating or performing these clinical techniques. You will have a total of 45 minutes to complete all skills, so please plan accordingly.”

1. Completely auscultate the cardiorespiratory system, including use of a rebreathing bag.
2. Identify usual IM, IV, and SQ injection sites. Perform an intravenous and intramuscular injection using injectable saline and discuss acceptable volumes that may be given at each site of an IM and SQ of injection. Discuss route of injection volume and possible complications for one of the following drugs to be randomly chosen: xylazine, phenylbutazone, procaine penicillin, banamine (flunixin meglumine), acepromazine.
3. Discuss preparation for, and performance of, a dental exam in a horse including estimation of the age of the horse. Discussion and demonstrate rasping (floating) of the upper cheek teeth, using manual tools.
4. Place a support (aka standing, shipping, or stable) bandage on a forelimb.
5. Discuss how to safely perform a rectal examination and potential complications.
6. Perform a basic ophthalmic examination, including use of a direct scope.
7. Describe how to perform abdominocentesis, including selection of necessary equipment, gross interpretation of sample, and possible complications.
8. Describe the horse for the purpose of identification for official forms such as equine infectious anemia (EIA) testing or insurance enrollment

for Equine Practice—Station Two (EQ02)

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Candidate is scored on ability to correctly and efficiently perform the eight (8) skills:		
i. Completely auscultate the cardiorespiratory system including use of a rebreathing bag a.	15	
ii. Identify usual IM, IV, and SQ injection sites and: a. Perform an intravenous and intramuscular injection, using injectable saline; and discuss acceptable volumes that may be given at each site of an IM and SQ of injection b. Discuss route of injection and possible complications of one of the following drugs, (which is randomly selected by the examiner): xylazine, phenylbutazone, procaine penicillin, banamine (flunixin meglumine), acepromazine Dismissible Event: If a candidate fails to recognize an intracarotid insertion of needle and attempts to proceed with intracarotid injection, the examiner will stop the candidate and instruct them to proceed to the next skill.	15	
iii. Discuss preparation for, and performance of, a dental exam in a horse, including, estimation of the age; and discussion and demonstration of rasping (floating) of upper cheek teeth a.	11	

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
iv. Place a support (aka standing, shipping, or stable) bandage on a forelimb a.	11	
v. Discuss how to safely perform a rectal examination and potential complications a.	11	
vi. Perform a basic ophthalmic examination, including use of a direct scope, and discuss techniques that might facilitate the exam a.	11	

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
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Candidate Name/ID:

Date/Session/Site:

Examiner:

vii. Describe how to perform abdominocentesis, including selection of necessary equipment; gross description of sample, and possible complications □	11	
viii. Describe horse for the purpose of identification for official forms such as Equine Infectious Anemia (EIA) testing or insurance enrollment. a.	15	
TOTAL POINTS	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score): Name (print): _____ Initials: _____ Signature: _____.

Station Three—Lameness Evaluation

Overview of Station Three—In this station, the candidate will work through a case involving a lame horse. The candidate should obtain a history from the client/examiner and then observe video clips of a horse at a walk and trot to determine the lame limb. The candidate will have to ask what video clips (what gait and from what position) they would like to see, similar to what they would ask a handler to do with the horse if the horse were being examined live. The candidate should explain how they determined which limb was affected and discuss appropriate general principles related to equine lameness (e.g., how to differentiate fore-limb vs hind-limb lameness and how to determine left vs. right limb).

The candidate will then use a live horse to demonstrate examination of the limb identified as lame in the video. Such an examination should usually include: characterization of digital pulses, picking up and cleaning the foot, examination with hoof testers, detailed palpation of the limb, and manipulation of joints.

The candidate may demonstrate flexion tests on the live horse that they would use to localize the lameness of the horse in the video and discuss associated principles or should justify why flexion tests are not appropriate for the case. The examiner will describe the affects of any flexion tests that the candidate indicates would be appropriate for their video case.

The candidate will not be expected to perform any regional nerve blocks, but they will have to describe how to perform palmar/plantar digital, abaxial sesamoid, and low and high volar nerve blocks and associated principles (e.g., landmarks, preparation, technique, desensitized areas, etc), regardless of the actual lameness in their patient. The candidate will then indicate what nerve and/or joint block(s) would be appropriate to assist in diagnosing the specific lameness in the horse they are examining. The examiner will provide the results of the nerve block(s) requested. If the candidate believes no nerve/joint blocks are required, they should justify that decision.

The candidate will not be expected to perform imaging examinations but should indicate what diagnostic imaging studies would be appropriate for their video case based upon the leg they identified as being lame, results of flexion tests (if any), and nerve blocks (if any). If the candidate believes no imaging is required, they should justify that decision. If the candidate requests radiographic studies that are appropriate for the case, the examiner will provide either film or digital images for the candidate to interpret.

The candidate should formulate a conclusion regarding the affected anatomical region leading to lameness and communicate the source of the lameness to the examiner, and state what the likely prognosis is for the condition.

During this station, the candidate will also be asked to locate 5 anatomical structures randomly assigned from the 20 listed on the assessment sheet (EQ03).

Standard Script for Station Three—Prior to beginning this station, the examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. The time should not begin until all of the instructions have been given. Script: “In this station you will be the veterinarian called to examine a horse for a lameness problem. Video clips will be used for you to identify which limb is affected, or in the case of bilateral lameness which limb is most severely affected, and you will then use a live horse to demonstrate the physical exam you would perform to localize the source of the lameness. I will be acting as the client, and you should obtain a complete history from me. Our technician can provide assistance, but ONLY according to your specific instructions.

You will have to specify what gait and direction you would like to see the horse moved in a video clip just as you would if you were communicating with someone handling a live horse for you. I will play whatever video clips you request if they are available. You will need to correctly identify the lame limb of the horse observed in the video clips and explain on what basis you made that conclusion (e.g., how to identify fore-vs. hind limb lameness; how to differentiate left vs. right limb lameness; etc). Once you identify the lame limb of the horse in the video, you will use this horse in front of you to demonstrate the systematic examination of that limb to localize the lameness. You should also specify, as well as demonstrate, any flexion tests of that lame limb that you think are indicated, or, if you believe no flexion tests are necessary to localize the lameness, you should justify why a flexion test is not appropriate. I will tell you the effect of any flexion tests that you state are indicated.

You will not be required to perform regional anesthesia. However, you will need to describe how to perform palmar/plantar digital, abaxial sesamoid, low volar, and high volar nerve blocks, and discuss the associated principles (e.g., landmarks, preparation, technique, desensitized areas, etc). You will then recommend to me what specific nerve and/or joint block(s) are needed to assist in the /localization of the lameness in the horse you are examining. Or, if you believe no nerve and/or joint blocks are required to diagnose/localize the lameness, you should justify that decision. Results of the nerve and joint blocks that you request for your specific patient will be provided to you.

You should then recommend what types of imaging studies are appropriate to diagnose the lameness. Or, if you believe no imaging is required, you should justify that decision. Results of radiographic studies that you request and that have been completed will be provided to you.

After your examination is complete, you should communicate the source of the lameness—that is the affected anatomical region—and the short- and long-term prognoses for return of this horse to its intended use to me. You have 45 minutes to complete this station.

Once you have completed the lameness exam, I will ask you to identify 5 randomly chosen anatomic structures.” *Form for Equine Practice—Station Three (EQ03)*

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
History Candidate is assessed on ability to elicit following from client (examiner):	5	
a)		
b)		
c)		
d)		
e)		
Initial Characterization of Lameness Based on Walk/Trot of Horse in Video Clips: Candidate is assessed on ability to:	35	
a. <i>Identify the lame limb and explain reasons for diagnosing the lameness in a specific limb in the patient provided. Points are only awarded when the candidate correctly identifies the lame leg.</i>		
b. <i>Describe how you used head or hip position to determine which limb was affected</i>		
c. <i>Describe normal/abnormal parts of stride (landing, length, sound, symmetry) to determine which limb was affected</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Lameness Examination Candidate is assessed on ability to perform the following items:	50	
a. <i>Characterization of digital pulses</i>		
b. <i>Picking up, examining the foot, and applying hoof testers</i>		
c. <i>Detailed palpation of the limb for identification of effusions and swellings, heat, and pain</i>		
d. <i>Manipulation of joints</i>		
e. <i>Demonstrate flexion test(s) appropriate for the lameness presented (examiners provide results of each flexion test requested for case presented)</i>		
f. <i>Describing how to do palmar/plantar digital, abaxial sesamoid, and low and high volar nerve blocks, to include at minimum identification of landmarks used to identify the injection site, how to prepare the site, injection technique, appropriate drugs, and area desensitized by each nerve block). Examiners provide results of each nerve block for case presented.</i>		
g. <i>Requesting appropriate imaging studies, or justification for not requesting/performing any imaging</i>		
h. <i>Identification of correct affected anatomical region based on results of all examinations and tests conducted</i>		
i. <i>Communicating recommended management & treatment of the horse based upon the diagnosis and short and long-term prognosis for return to intended use.</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Palpation Candidate is assessed on ability to correctly identify five of the following 20 structures randomly selected by the examiner . Examiner must circle the structures selected for each candidate. <i>(Note: limb structures do not need to be identified on the lame leg; they can be identified on any limb or on the limb indicated by the examiner)</i>	10	
a. Cannon bone (MC III)		
b. Splint bones (MC II and MC IV)		
c. Fetlock joint pouches (metacarpal-phalangeal joint)		
d. Suspensory ligament		
e. Superficial digital flexor/Deep digital flexor tendon		
f. Central sulcus of the frog		
g. Scapulohumeral joint		
h. Accessory carpal bone		
i. Olecranon		
j. Calcaneus		
k. Patella		
l. Medial patellar ligament		
m. Coxofemoral joint		
n. Greater trochanter		
o. Carpus or tarsus		
p. Tuber ischii		
q. Tuber sacrale		
r. Tuber coxae		
s. Withers		
t. Semitendinosus/semimembranosus muscles		

Candidate Name/ID:

Date/Session/Site:

Examiner:

TOTAL POINTS	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ Initials: _____

Signature: _____

Equine Practice Summary Score Sheet

Please see table below. This is the final summary score sheet.

EQ04 SCORE SHEET (Equine Practice Summary and Final Score Sheet)			
Candidate ID:		Date:	
	Raw points awarded	Weighting	Weighted points awarded
STATION 1; Clinical Evaluation, EQ01		40%	
STATION 2; Clinical Techniques, EQ02		25%	
STATION 3; Lameness Evaluation, EQ03		35%	
FINAL SCORE (60 weighted points required to pass)		100%	

Equine Practice Appendices

Appendix 1—Blank Page for Candidate Notes

Candidate Notes—Station 1—Equine Practice

This form is provided for candidates to use as they choose but information recorded on this sheet is not used in the assessment of the candidate's performance.

Candidate Name/Number _____

Date/Session (AM/PM) _____

CPE site _____

FOOD ANIMAL PRACTICE

Competencies

The food animal practice portion will assess the candidate's ability to:

- Evaluate an adult bovine (> 6 months of age) clinical case, including evaluation of herd health and regulatory issues (Station 1: clinical case, bovine station)
- Evaluate a bovine calf (< 6 months of age) or a caprine or ovine clinical case, including evaluation of herd health and regulatory issues (Station 2: clinical case, other food animal station)
- Perform designated clinical skill procedures (Station 3: clinical procedures station)
- Perform bovine reproductive procedures (Station 4: bovine theriogenology and public health, food safety, and regulatory issues station)
- List drugs prohibited for extra-label use in food animals in the United States or Canada (Station 4: bovine theriogenology and public health, food safety, and regulatory issues station)

Time

Maximum time, 3 hours (break down of time given below; candidates will **NOT** be allowed additional time for any station)

1. Clinical case, bovine station: 45 minutes **maximum**
2. Clinical case, other food animal station: 45 minutes **maximum**
3. Clinical procedures station: 2 areas; total time: 45 minutes **maximum**
4. Bovine theriogenology and public health, food safety, and regulatory issues station: 3 areas; total time for Area A: 10 minutes **maximum** (3 minutes for rectal palpation); total time for Areas B and C combined: 35 minutes **maximum**

Set-up Information

1. Animal Requirements
 - a. Case stations
 - i. Station 1—One bovine animal > 6 months of age.
 - ii. Station 2—One bovine animal < 6 months of age **OR** one ovine **OR** one caprine animal.
 - b. Procedures station
 - i. Station 3—One **lactating** cow.
 - c. Bovine theriogenology and public health, food safety, and regulatory issues station
 - i. Station 4, Part A—One sexually mature cow.
2. People Requirements
 - a. Clinical case, bovine station (Station 1): One veterinary examiner per candidate (45 minutes).
 - b. Clinical case, other food animal station (Station 2): One veterinary examiner per candidate (45 minutes).
 - c. Clinical procedures station (Station 3): One veterinary examiner per candidate (45 minutes).
 - d. Bovine theriogenology and public health, food safety, and regulatory issues station (Station 4): One veterinary examiner per candidate (45 minutes).
3. Facilities and Equipment
 - a. 2 rooms/areas for restraining food animals (case presentations; Stations 1 and 2)
 - b. 1 room/area for restraining a bovine animal (procedures station; Station 3)
 - c. 1 room/area for restraining a bovine animal, placing an obstetric box, and writing a brief list (bovine theriogenology and public health, food safety, and regulatory issues station; Station 4)
 - d. Timing device visible from each station to track examination time. Whenever possible, timers will be of the “count-down” variety to allow candidates and examiners alike to clearly see time remaining in station or section.
4. Supplies/Information Provided by The Examiner
 - a. Bucket, water, towels, halter, mouth gag, nose tongs, stomach tube
 - b. Speculum, lubricant, container for ruminal fluid
 - c. Milk sample collection vials (for bacterial culture), milk sample
 - d. CMT (California Mastitis Test) paddle solution/reagent, assorted vacutainers

- e. Container for urine sample, urine test sticks, product information and references, clipboard
- f. Rectal gloves and other gloves, standard bovine obstetrical equipment

5. Supplies Provided by The Candidate

- a. Stethoscope, digital thermometer, and penlight
- b. Coveralls and footwear that can be disinfected

General Requirements of the Candidate

Candidates are expected to handle all animals in a humane and safe manner. If, in the opinion of the examiner, the candidate does not handle the animal humanely or handles the animal in a manner that is unsafe to them or other CPE site team members the examiner may assess penalties ranging from a reduction in score to termination of the exam and dismissal of the candidate with a failing score.

Candidates will not necessarily be informed of a failing score unless their actions comprise an immediate real threat to the health or safety of a live animal or person. In such instances, the candidate's performance will be terminated, and the candidate will be instructed to proceed to the next skill or activity at that station. If the candidate's actions constitute a repeated or ongoing threat to an animals' or persons' well-being, the candidate may be dismissed from the station. In instances where a candidate earns a Dismissible Event for a plan or action that would likely cause serious harm if it were followed but no immediate real threat to a live animal or person exists, the candidate will be allowed to proceed without being informed of the Dismissible Event. A candidate that has been awarded a Dismissible Event at any Station for the reasons described in the previous paragraphs will fail the entire FAP section but will not be prevented from taking the other stations in the FAP section.

Station One—Clinical Case, Bovine

Overview of Station One— When possible, a CPE site team member will act as the client with an adult cow (> 6 mo. of age) that is affected with a condition commonly found in veterinary practice. If a CPE site team member is not available, the examiner will act as the client.

The candidate should:

- question the client/examiner to determine the medical history of the patient
- perform a systematic distance examination and a physical examination
- develop an initial problem list and a differential diagnoses list
- request appropriate and reasonable initial diagnostic tests
- interpret the results of diagnostic tests
- determine the most likely diagnosis
- develop a therapeutic and control plans specific for the patient and/or the herd
- develop a prognosis for the patient
- identify and regulatory and public health implications
- orally communicate all of the above information to the client/examiner.

The candidate may request appropriate diagnostic tests from the examiner in conjunction with the above case. The examiner will provide results (with normal values) of only those tests completed.

Standard Script for Station One

—Prior to beginning this station, the examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. The time should not begin until all of the instructions have been given. “In this station you will be the veterinarian called to examine the cow in front of you. I will be acting as the client (if examiner is acting as client, if not introduce the CPE site team member). Please obtain a complete history from me. Then perform a complete physical examination and describe abnormal and normal findings to me. If you believe a rectal examination is indicated, you may request it and I will provide you with the findings obtained from the rectal examination. You may record the history and physical exam findings yourself, using this form [**examiner: please refer to Appendix 1**], but you should discuss your findings with me as well. Then, based upon the history and physical examination, you should generate a problem list, and create a list of differential diagnoses. Then, develop a diagnostic plan. You may request appropriate diagnostic tests, as long as I, the client, agree to spend the money for those tests. I will supply the results of only those laboratory tests that were completed. At that point, you should communicate the most likely diagnosis to me. Develop a complete therapeutic and management plan for this animal and/or the herd and discuss any public health issues or regulatory concerns that you feel are necessary. Again, you may record your findings and concerns on the form provided [**examiner: please refer to Appendix 1**] but you must communicate those to me as we will not be grading anything written on that form. You will have 45 minutes to complete this station, and you are responsible for monitoring your time remaining.” for Food Animal Practice—Station One (FAP01)

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
History: <i>a.</i> <i>b.</i> <i>c.</i> <i>d.</i> <i>e.</i> <i>f.</i> <i>g.</i> <i>h.</i> <i>i.</i> <i>j.</i>	15	

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Physical Examination:	25	
a. <i>Accurately perform a distance examination, to include body condition score (Scale of 1–5, with 1 being very thin). Candidates should communicate normal and abnormal findings to the examiner.</i>		
b. <i>Accurately perform a complete physical examination. Candidates should communicate normal and abnormal findings to the examiner.</i>		
c. <i>Accurately interpret results of rectal examination, if appropriate</i> <i>Note: discussion only with the examiner, rectal examination NOT performed by candidate.</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Integration of Clinical Information:	10	
<i>a. Correctly identify and communicate all problems, based on history and physical examination</i>		
<i>b. Develop and communicate rational differential diagnoses list based on history and physical examination</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Developing a Diagnostic Plan: <i>Note: The candidate will be assessed on the development of a diagnostic plan towards differential diagnoses that are appropriate for the case.</i>	10	
<i>a. Order appropriate diagnostic test and/or necropsy</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Integration of Diagnostic Information:	15	
<i>a. Interpretation of test results</i>		
<i>b. Use test results to appropriately rule in and rule out differential diagnoses</i>		
<i>c. Arrive at the most likely diagnosis</i>		

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Therapeutic and Management Plan:	20	

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Note: The candidate will be assessed on the development and communication of a therapeutic and management plan towards the most likely diagnosis appropriate for the case. No points will be awarded for a therapeutic plan based on an incorrect diagnosis.</i>		
<i>a. Develop a correct therapeutic/management plan for individual animal (and/or herd, if indicated)</i>		
<i>b. Develop an appropriate prognosis</i>		
<i>c. Competently discuss prevention and control issues</i>		
<i>d. Competently discuss regulatory issues (e.g., notifying state/federal health officials of reportable disease); public health issues (e.g., zoonotic potential); food safety/slaughter for food issues (e.g., withdrawal times)</i>		
Communication: Candidate is assessed based upon their ability to:	5	
<i>a. Communicate clearly and effectively using language that might be readily understood by a client</i> <i>a.</i>		
<i>b. Answer all questions correctly and appropriately</i> <i>a.</i>		
TOTAL POINTS	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ **Initials:** _____

Signature: _____.

Station Two—Clinical Case, Other Food Animal

Overview of Station Two— When possible, a CPE site team member will act as the client will act as a client with a calf or goat or sheep that is affected with a condition commonly found in veterinary practice. If a CPE site team member is not available, the examiner will act as the client.

The candidate should:

- question the client/examiner to determine the medical history of the patient
- perform a systematic distance examination and a physical examination
- develop an initial problem list and a differential diagnoses list
- request appropriate and reasonable initial diagnostic tests
- interpret the results of diagnostic tests
- determine the most likely diagnosis
- develop a therapeutic and control plans specific for the patient and/or the herd
- develop a prognosis for the patient
- identify and regulatory and public health implications
- orally communicate all of the above information to the client/examiner

When required and requested by the candidate, standard laboratory data for appropriate diagnostic tests will be provided in written form with normal values.

(Note—See also example FAP02 assessment sheet on the following pages)

Standard Script for Station Two—Prior to beginning this station, the examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. The time should not begin until all of the instructions have been given. “In this station, you will be the veterinarian called to examine the animal in front of you. I will be acting as the client. (if examiner is acting as client, if not introduce the CPE site team member) Please obtain a complete history from me. Then, perform a complete physical examination and describe abnormal and normal findings to me. You may record your findings using this form [**examiner: please refer to Appendix 1**], but you should discuss your findings with me as well. Then, based upon the history and physical exam, you should generate a problem list, create a list of differential diagnoses, and select the most likely diagnosis. Then, develop a diagnostic plan. You may request pertinent laboratory data from me, as long as I, the client, agree to spend the money for those laboratory tests. You will be supplied with the results of only those laboratory tests that were completed. Develop a therapeutic and management plan for this animal and/or the herd and discuss any public health issues or regulatory concerns that you feel are necessary. Again, you may record your findings and concerns on the form provided [**examiner: please refer to Appendix 1**] but make sure to communicate them to me as we will not use anything written on this page as part of your grade. You will have 45 minutes to complete this station, and you are responsible for monitoring your time remaining.” for Food Animal Practice—Station 2 (FAP02)

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
History:	15	
<i>a.</i>		
<i>b.</i>		
<i>c.</i>		
<i>d.</i>		
<i>e.</i>		
<i>f.</i>		
<i>g.</i>		
<i>h.</i>		
<i>i.</i>		
<i>j.</i>		
<i>k.</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

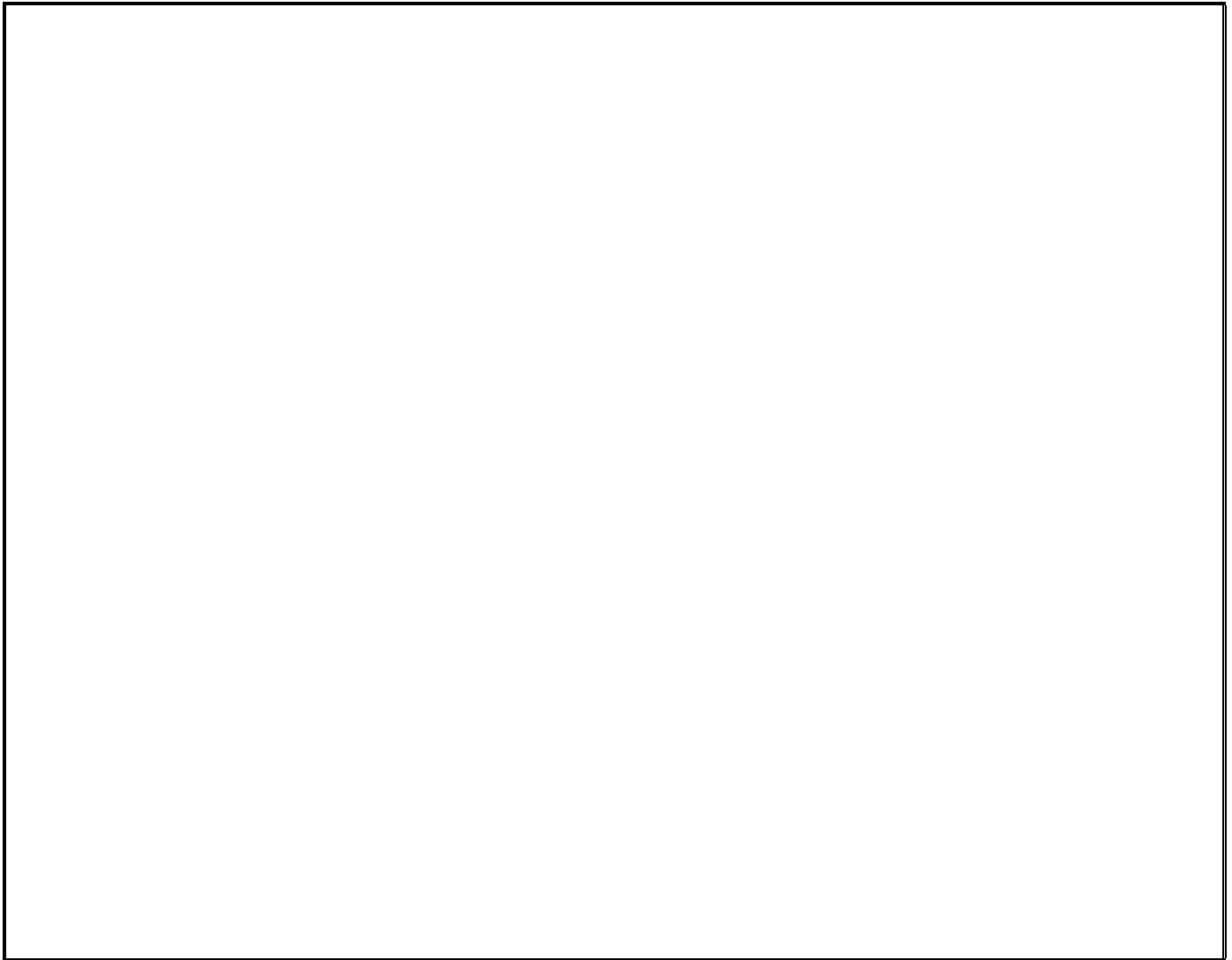
<i>b. Develop and communicate a rational differential diagnoses list based on history and physical examination</i>		

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Developing a Diagnostic Plan: <i>Note: The candidate will be assessed on the development of a diagnostic plan towards differential diagnoses that are appropriate for the case.</i>	10	
<i>a. Order appropriate diagnostic test and/or necropsy</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

A large, empty rectangular box with a thin black border, occupying the central portion of the page. It is intended for the candidate to provide a written response or drawing during the assessment.

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Integration of Diagnostic Information:	15	
<i>a. Interpretation of test results</i>		
<i>b. Use test results to appropriately rule in and rule out differential diagnoses</i>		
<i>c. Arrive at the most likely diagnosis</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Therapeutic and Management Plan: <i>Note: The candidate will be assessed on the development and communication of a therapeutic and management plan towards the most likely diagnosis appropriate for the case. No points will be awarded for a therapeutic plan based on an incorrect diagnosis.</i>	20	
<i>a. Develop a correct therapeutic/management plan for individual animal (and/or herd, if indicated)</i>		
<i>b. Develop an appropriate prognosis</i>		
<i>c. Competently discuss prevention and control issues</i>		
<i>d. Competently discuss regulatory issues (e.g., notifying state/federal health officials of reportable disease); public health issues (e.g., zoonotic potential); food safety/slaughter for food issues (e.g., withdrawal times)</i>		
Communication: Candidate is assessed based upon their ability to:	5	
<i>a. Communicate clearly and effectively using language that might be readily understood by a client</i>		
<i>a.</i>		
<i>b. Answer all questions correctly and appropriately</i>		
<i>a.</i>		

Candidate Name/ID:**Date/Session/Site:****Examiner:**

MASTER ASSESSMENT FORM(PAGE 7)		
TOTAL POINTS	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ **Initials:** _____

Signature: _____.

Station Three—Clinical Procedures

Overview of Station Three—

Part A: The candidate will perform the following procedures in order on a lactating cow:

1. Obtain a milk sample from each quarter, perform a California Mastitis Test (CMT) on the samples, and interpret the test results.
2. Prepare the udder and obtain a milk sample for bacterial culture; interpret bacterial culture results provided and communicate a therapeutic/management plan for the dairyman based upon the culture results.
3. Place a halter on the cow and restrain the cow in a manner that would allow procedures to be performed safely on the head or neck.

(Note—See also example FAP03 assessment sheet on the following pages)

Part B: The candidate will perform a total of five (5) procedures from the following list on an adult cow. One (1) of those procedures will be randomly chosen from skills 1-2, one (1) of those procedures will be randomly chosen from skills 3-4, and three (3) of those procedures will be randomly chosen from skills 5-13.

1. Place a mouth gag and perform an examination of the oral cavity.
2. Pass a stomach tube, ensure it is placed correctly, and collect rumen fluid.
3. Select an appropriate vacutainer for a specified laboratory test and collect a blood sample by coccygeal venipuncture.
4. Manually collect urine sample, describe the sample, perform a gross assessment and a dipstick test, and interpret the results. Discuss the limitations of dipstick test.
5. Percuss and auscultate a cow to determine the presence of absence of a rumen gas cap, left displaced abomasum, pneumoperitoneum, pneumocolon, and right displaced abomasum. Discuss how these conditions are differentiated from each other.
6. Describe how to place and secure an intravenous catheter into the jugular vein for long-term use. Candidate should select all materials and equipment; identify the landmarks/site of catheterization; prepare the site of catheterization; describe the position and placement of the catheter and describe how the catheter would be secured.
7. Describe how to perform a caudal epidural injection. Candidate should select all materials and equipment; draw up the correct amount of local anesthetic; identify the landmarks/site of injection; prepare the site of injection; and describe the position and placement of the needle.
8. Describe how to restrain and examine a hind foot for suspected foot lameness.
9. Perform a speculum examination of the cervix.
10. Describe in detail how and where to inject 30ml of an antibiotic solution for both subcutaneous and intramuscular routes.
11. Describe how to perform a cornual nerve block. Candidate should select all materials and equipment; draw up the correct amount of local anesthetic; identify the landmarks/site of injection; prepare the site of injection; and describe the position and placement of the needle.

12. Describe how to perform paravertebral anesthesia. Candidate should select all materials and equipment; draw up the correct amount of local anesthetic; identify the landmarks/sites of injection; prepare the site of injection; and describe the position and placement of the needle.
13. Administer oral medication to the cow.

Standard Script for Station Three—Prior to beginning this station, the examiner should read the following script (in quotes) to each candidate. The time should not begin until all of the instructions have been given. “In front of you is a mature, lactating dairy cow that will be used for both Part A and Part B of this Procedures Station. In Part A, you need to complete the following 3 skills in order listed:

- 1) Obtain a milk sample from each quarter, perform a California Mastitis Test on the samples, and interpret the test results.
- 2) Obtain a milk sample for bacterial culture. I will then provide bacterial culture results. Based on your interpretation of the results, you will have to communicate a therapeutic and management plan for the dairyman.
- 3) Place a halter on the cow and restrain her in a manner that would allow procedures to be performed on the head and neck.

A list of these skills will be available for you to refer to as you proceed through this station.”

“In Part B, I would like you to perform 5 procedures printed on these index cards for your reference.” “As you perform all of these skills, you must explain to me what you are doing. You will have 45 minutes to complete both Part A and Part B, so plan accordingly. In front of you is a clock [and/or timer] for your use to manage your own time.” for Food Animal Practice—Station 3 (FAP03)

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
PART A Candidate is scored on ability to correctly and efficiently:	35	
a. Obtain a milk sample from each quarter, perform a California Mastitis Test (CMT) on the samples, and interpret the test results. i.		
b. Prepare the udder and obtain a milk sample for bacterial culture; interpret bacterial culture results provided and communicate a therapeutic/management plan for the dairyman based upon the culture results.		
c. Place a halter on the cow and restrain the cow in a manner that would allow procedures to be performed safely on the head and neck i.		

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
PART B Candidate is scored on ability to perform correctly and efficiently 5 of the following 13 skills:	65	

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>NOTE: Candidates will perform one skill chosen from skills 1-2 and one skill from 3-4. Three skills will be chosen from 5-13.</i>		
i. Place a mouth gag Perform an examination of the oral cavity (w/ or w/out gag) : visual assessment & discussion of lesions present (if any):		
ii. Pass a stomach tube , Ensure it is placed correctly via 1 acceptable method , Extraction of tube discuss collected rumen fluid		
iii. Select an appropriate vacutainer for a specified laboratory test and collect a blood sample by coccygeal venipuncture •		
iv. Manually collect urine sample. Describe the sample, perform a dipstick test, and interpret the result. Discuss the limitations of the dipstick test. Note: Points will not be deducted if use of correct procedure does not yield a urine sample; examiner to supply urine sample in this case. a.		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
PART B (continued) <i>NOTE: Candidates will perform 3 skills to be chosen from v – xiii</i>		
v. Percuss and auscultate this cow to determine the presence or absence of each of the following: LDA, rumen gas cap, pneumoperitoneum, pneumocolon, and RDA. Discuss how to differentiate between the above conditions a.		
vi. Select an appropriate catheter for use long-term use in the jugular vein; describe how to place, secure, and maintain the catheter. a.		
vii. Describe how to perform a caudal epidural injection for the purposes of analgesia during obstetrical manipulations a.		
viii. Describe how to examine a hind foot for suspected foot lameness a.		
ix. Perform a speculum examination to evaluate cervix and describe findings a.		
x. Describe in detail how and where to inject 30ml of an antibiotic solution for both subcutaneous and intramuscular routes		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
PART B (continued) <i>NOTE: Candidates will perform 3 skills to be chosen from v – xiii</i>		
xi. Describe how to perform a cornual nerve block a.		
xii. Describe how to anesthetize the flank of a cow for abdominal surgery a.		
xiii. Administer oral medication to the cow a.		
TOTAL POINTS	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score): Name (print): _____ Initials: _____ Signature: _____.

Station Four—Bovine theriogenology and public health, food safety, and regulatory issues

Overview of Station Four—

Part A: When possible, a CPE site team member will act as the client with an adult female cow presented for a check of her reproductive status. . If a CPE site team member is not available, the examiner will act as the client.

The candidate should:

- **perform** a rectal examination*
- **determine** if the cow is pregnant
- **explain** what that determination was based upon
- **discuss** what effect prostaglandin F2 α administration would have on the cow's reproductive status.

*The actual rectal examination must be completed within 3 minutes. The examiner will stop the rectal examination at 3 minutes if the candidate has not completed the examination.

(See also FAP04 assessment sheet on the following pages)

Part B: The candidate will be presented with an “obstetric box” model in which the fetus has been placed in an abnormal position commonly associated with dystocia in cows. The candidate should:

- **ask** the examiner/client questions to solicit any necessary additional history and physical finding (e.g., straining, etc)
- **describe** how to prepare the cow for obstetrical examination
- **describe** the malpresentation, -position, or –posture of the fetus, using standard terminology
- **perform** the necessary manipulation on the fetus in the obstetric box in order to facilitate vaginal delivery
- **place** chains on the fetus in the obstetric box to facilitate delivery
- **discuss** how to determine whether vaginal delivery is possible in a calf with dystocia
- **describe** possible alternatives to vaginal delivery.

(See also FAP04 assessment sheet on the following pages)

Part C: Using the FAP05 assessment sheet, the candidate will **list** five (5) of the drugs currently prohibited for extralabel use in food animals in the United States or Canada (answer for the country in which examination is taking place).

(Note—See also example FAP05 assessment sheet on the following pages)

Standard Script for Station Four, part A—Prior to beginning part A of this station, the examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. The time should not begin until all of the instructions have been given.

“This station will consist of three parts. In front of you is a sexually mature cow. This cow will be used only for Part A. Over there is an obstetric box with a bovine fetus placed inside; this will be used for Part B. Part C will require you to write an answer to a single question; writing material is available over there. You will have a total of 45 minutes to complete this entire station, but Part A must be completed within 10 minutes. Moreover, for humane reasons, the actual rectal examination must be completed within 3 minutes. If you have not completed the rectal examination in 3 minutes, I will stop that portion of Part A, and you may complete the other portion. If you have not completed all skills in Part A in 10 minutes, I will stop this portion of the examination and ask you to move on.

In Part A, I would like you to perform a rectal examination on this sexually mature cow, determine if she is pregnant, explain to me on what basis that determination was made, and discuss with me the response of this cow’s reproductive tract to a therapeutic dose of prostaglandin F2 α . Please proceed with Part A. When you have completed this part, we will move over to the obstetric box, and I will provide instructions for Parts B and C.”

Standard Script for Station Four, parts B and C—Prior to beginning parts B and C of this station, the examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. The time should not begin until all of the instructions have been given. “You will have a total of 35 minutes to complete the next two parts of this station, so please plan accordingly. In Part B, we will be using this obstetric box to simulate a pregnant cow that has been in labor for some hours. Consider yourself the veterinarian and I will be the client. I will provide you with the presenting complaint, and you will solicit any necessary additional history and physical findings (for example, signs of straining, etc) from me. You will then describe how to prepare a cow for obstetrical examination. Next, you will examine the fetus inside this obstetric box and describe the malpresentation, -position, or -posture, using standard terminology. You will perform the necessary manipulation on this fetus in order to facilitate vaginal delivery, including placing chains or ropes. However, you are not required to—nor will you be assessed on—pulling the fetus from the obstetric box. Finally, you will discuss with me possible alternatives to vaginal delivery for this case, and communicate to me, the client, post-delivery cow, and calf (if appropriate) care.

For Part C, you will need to answer a single question regarding a list of drugs prohibited by Federal law for extra-label use in food animals in the United States OR Canada (answer for the country in which you are currently sitting this examination). You may proceed now with either Part B or Part C, but remember you have 35 minutes to complete both parts.”

for Food Animal Practice—Station 4 (FAP04/FAP05)

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
PART A <i>Points will be deducted if candidate does not complete the actual rectal examination within 3minutes or the entire Part A within 10 minutes.</i> Candidate is scored on ability to correctly and efficiently:	40	
<i>a. Perform rectal examination of the cow's reproductive tract and determine pregnancy status .</i>		
<i>b. Explain on what basis pregnancy status determination was made</i>		
<i>c. Describe the effect on pregnancy and ovarian structures that prostaglandin F2α administration will have on the cow being examined.</i>		

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Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ **Initial:** _____

Signature: _____

.

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
PART C <i>Candidate must list 5 of the currently prohibited drugs for use in food animals to receive credit.</i> Candidate is scored on ability to correctly:	100	
List 5 drugs prohibited for extra label use in food animals in the United States or Canada.		
TOTAL POINTS	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ **Initials:** _____

Signature: _____

Food Animal Practice Summary Score Sheet

FAP06 SCORE SHEET (Food Animal Practice Section Summary and Final Score Sheet)			
Candidate Name/ID:		CPE Site/Date/Session:	
STATION (area)	Raw Points Awarded	Weighting	Weighted Points Awarded
STATION 1: Clinical Case, Bovine Total points from FAP01 Assessment		30%	
STATION 2: Clinical Case, Other Food Animal Total points from FAP02 Assessment		30%	
STATION 3: Clinical Procedures Total points from FAP03 Assessment		20%	
STATION 4; Parts A&B Bovine Theriogenology Total points from FAP04Assessment		15%	
STATION 5; Part C: Public Health, Food Safety, and Regulatory Total points from FAP05 Assessment		5%	
FINAL SCORE (60 weighted points required to pass)		100%	

Food Animal Practice Appendices
Appendix 1—Blank Page for Candidate Notes

Candidate Notes—Station 1 & 2 – FAP01 & FAP02

This form is provided for candidates to use as they choose but information recorded on this sheet is not used in the assessment of the candidate's performance.

Candidate Name/Number _____

Date/Session (AM/PM) _____

CPE site _____

Appendix 2—Candidate Answer Sheet—Food Animal Practice Station 4, Part C

CANDIDATE ANSWER SHEET—Food Animal Practice Section, Station 4, Part C

Public Health, Food Safety, and Regulatory

Candidate Name/ID:

Date/Session/Site:

List 5 drugs prohibited for extra label use in food animals in the United States (if taking the CPE in the USA) or Canada (if taking the CPE in Canada)

1.

2.

3.

4.

5.

Candidate Signature:

Food Animal Practice
Appendix 3

[illegible][illegible]

NECROPSY

Competencies

The Necropsy section is a single station that will assess the candidate's ability to:

- perform a necropsy in an orderly manner, including using appropriate instruments safely and adept and safe handling of all sharps
- dissect the heart under direct observation of an examiner
- describe findings as normal or abnormal in writing, and if abnormal, briefly listing what the abnormality is, using the Necropsy Report Form provided as Appendix 2 to this section of the MOA
- take tissue samples for histopathology; and remove the head for rabies testing.

Time

Maximum time: 90 minutes for performance of the necropsy plus an additional 15 minutes to complete the Necropsy Report Form (total of 105 minutes [1 hour and 45

minutes]). The Necropsy Report Form can be filled out while the candidate is performing the necropsy; however, the necropsy itself must be completed within 90 minutes. This means candidates will be told to stop the necropsy and set down all instruments at 90 minutes. An additional 15 minutes can then be used to complete the Necropsy Report Form. Candidates are responsible for their own time management.

Set-up Information

1. Candidates must provide the following supplies:
 - a. Clean laboratory coat.
2. The following supplies/information will be provided by the examining site:
 - a. Facilities and instruments to perform a necropsy similar to what would be present in veterinary practice (e.g., knives, scissors, bone cutters, etc).
 - b. Supplies required for collecting tissue specimens, to include marking pens and labels.
 - c. Clipboard or other writing surface, Necropsy Report Form for documenting findings (Appendix 2), writing utensils (pens/pencils).
 - d. Coveralls, boots, and gloves.
 - e. Safety equipment (gloves, aprons, goggles, etc).

Animal Requirements—Animal carcass (1 per candidate, carcass to be at least 2kg and not more than 45 kg weight and selected from porcine, canine, feline, bovine, equine, caprine, or ovine animals).

3. People Requirements—Minimum requirement: 1 veterinary examiner per 3 candidates and 1 Exam assistant or veterinary technician per 5 candidates.
4. Facilities and Equipment
 - a. 1 room/area suitable for conducting necropsies.
 - b. Timing device visible from each station to track examination time. Whenever possible, timers will be of the “count-down” variety to allow candidates and examiners alike to clearly see time remaining in station or section.

General Requirements of the Candidate

Candidates are expected to conduct the necropsy in a safe, orderly, and sanitary manner. Candidates should report any self-injury promptly to the examiner. Accidental self-injury does not necessarily result in automatic failure of the necropsy section, and it is important that any injury be treated in a timely manner. Time taken to treat the injury will not be counted against the candidate’s maximum time allotted for this section (i.e., the clock will be stopped to attend to the injury). If, in the opinion of the examiner, the candidate is performing the necropsy in a haphazard way or does something that is unsafe and of serious danger to them or other CPE site team members, the examiner may assess penalties ranging from a reduction in the NEC01 score to termination of the NEC Section and dismissal of the candidate with a “zero” for Necropsy.

Examples of “Dismissible Events” that might result in termination of the Necropsy section include, but are not limited to:

- Using a knife in an inappropriate manner that is very unsafe.
- Lack of adeptness in using instruments that is apparent at multiple areas of the necropsy.
- Improper handling or disposal of sharps equipment.

Please also refer to Appendix 1 and the NEC01 Assessment sheet.

Overview of Necropsy Section

The candidate will be given an animal carcass (at least 2kg and not more than 45 kg in weight and selected from porcine, canine, feline, bovine, equine, caprine or ovine animals) and an appropriate environment for conducting a necropsy. The candidate must **perform** a complete necropsy by completing the following tasks:

- Thoroughly examine an intact carcass, documenting body condition
- Open carcass, examine major cavities, remove viscera
- Examine major organs, to include palpating lungs for inflation and, with an examiner observing, identifying specified cardiac structures (chambers, aorta, vena cava, pulmonic trunk, valves, and myocardium)
- Examine muscles and joints (at least one each from a hind and fore limb)
- Examine endocrine glands and lymph nodes
- Remove the animals' head at the atlanto-occipital joint as if to submit for rabies examination

During the necropsy, the candidate must document, in writing on the Necropsy Report Form (Appendix 2) provided, whether the organs and tissues examined have any abnormalities. If the candidate assesses an organ or tissue as abnormal, the candidate must briefly list the change(s) observed (e.g., if spleen is larger than normal, the candidate should simply state either splenomegaly or enlarged spleen). The completed Necropsy Report Form will remain part of the candidate's record of examination and will be assessed after completion of this section.

In addition, the candidate must take and preserve a tissue section of the appropriate size/thickness from each of the following organs for histopathology and document, on the Necropsy Report Form, whether the section was taken from a normal or abnormal organ. All tissues are to be collected in one container. Fixative or fixative substitute will be provided, and candidates will need to add the appropriate volume of fixative for amount of tissue collected.

- a. Heart
- b. Lung
- c. Liver
- d. Small intestine
- e. Colon
- f. Stomach
- g. Spleen
- h. Pancreas
- i. Kidney
- j. Skeletal muscle
- k. Thyroid gland
- l. Adrenal gland
- m. Internal lymph node
- n. Peripheral lymph node

Standard Script for Necropsy Section The examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. Time does not begin until all instructions have been given.

“There is a total of 105 minutes to for this section. You have 90 minutes to perform a necropsy on the animal in front of you. You are responsible for monitoring your own time. An assortment of instruments and equipment to perform the necropsy, and a container to put samples in, are at your station. If you need a replacement for any of the instruments provided, please let us know. You should thoroughly examine the intact carcass; open the carcass and examine the major cavities; remove the viscera; and examine the major organs, muscles, joints, endocrine glands, and lymph nodes. At any time during the exam, you may describe to the examiner what organ or tissue you are looking at and observing . You will also be required to remove the animal’s head. You are not required to open the skull. You should collect tissue samples for histopathology of the organs and structures identified in Appendix 3. Before placing the samples in fixative , you should place each specimen in order on the laminated copy provided to allow the examiner to assess each specimen.

Before dissecting the heart, please call an examiner so that the examiner may observe as you identify and examine the following structures:

- Chambers – right & left atrium, right & left ventricle
- Aorta
- Vena cava
- Pulmonic trunk
- Valves – aortic, pulmonic, mitral, tricuspid
- Myocardium

If an examiner is not immediately available, please do not begin dissection of the heart but, instead, continue with the next step of your necropsy.

If the examiner is concerned that you are using an instrument or equipment in an unsafe manner, they may notify you and you will need to correct yourself. If you injure yourself, please report that promptly to the examiner. Accidental self-injury does not necessarily result in automatic failure of the necropsy section, and it is important that any injury be treated in a timely manner. Time taken to treat the injury will not be counted against the time limit allotted for this section; that is, we will stop the clock to attend to any injury. Additionally, even if you are not required to clean your station, you must dispose of all sharps properly at the completion of your exam.

Following the completion of the necropsy, you will be given an additional 15 minutes to document in writing on the Necropsy Report Form whether the organs and tissues you examine have any abnormalities. If you note any abnormality, you should provide a brief description of the abnormality. For example, if you believe the liver is larger than normal, you should simply write “hepatomegaly” or “enlarged liver.”

You must monitor your time as you work to ensure that you complete the Necropsy itself within a time limit of 90 minutes. You may choose to begin filling out the Necropsy Report Form while doing the necropsy, but please remember, you will be required to stop the necropsy and set down your instruments at 90 minutes. You will then have what time is remaining out of the 105 minutes to complete your Necropsy Report Form. Please make sure your name and candidate ID are on all pages of the Necropsy Report Form and leave your completed form on your table when you are done.

As you perform the necropsy, the examiner(s) will be making notes. Please do not let the examiners' writing affect your performance at any time during the Necropsy. Also, please be aware that an examiner may nod or state "OK" to let you know that he has heard or seen you; however, these do not mean the examiner is in agreement with what you have said or done. Also, examiners cannot offer feedback on your performance during or after the examination."

for Necropsy (NEC01)

Candidate Name/ID:

Date/Session Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Perform a complete necropsy. Candidates will be assessed on their ability to perform a complete necropsy accurately, effectively, and efficiently as outlined on this assessment sheet	92	
<i>a. Thoroughly examines intact carcass, to include:</i>		
i. assessing general body condition (nutritional status, muscle mass) and hydration (palpates body, head)		
ii. examining skin/hair coat (dorsum/ventrum, etc.)		
iii. examining head (eyes, ears, lips, oral cavity, external nares)		
iv. examining limbs (visual evaluation, palpation, flexion of joints) including feet (pads, toenails, hooves, etc., depending on species)		
v. examining perianal and genital region and mammary gland		
<i>b. Opens carcass, examines major cavities, remove viscera and head, to include:</i>		
i. opening carcass efficiently and in an orderly manner, using instruments appropriately		
☐ ☐ ☐		
ii. removing viscera in an orderly and adept manner		
iii. removing head in an adept manner, using appropriate instruments safely		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
<i>c. Examines major organs in a systematic manner, which includes:</i>		
☐ examining heart; opening chambers and identifying the left & right atria and left & right ventricles		
☐ aorta, vena cava, pulmonic trunk		
☐ exposing and examining the aortic, pulmonic, mitral, and tricuspid valves		
☐ examining myocardium		
☐ opening larynx		
☐ esophagus		
☐ trachea and mainstem bronchi		
☐ sectioning lung		
☐ inspecting & palpating the lung for inflation status		
☐ examining liver and gallbladder checking bile duct patency into duodenum		
☐ opening gallbladder		
☐ sectioning and inspecting at least 2 areas of the liver		
☐ examining stomach and intestines; inspecting omentum		
☐ opening and inspecting stomach		
☐ opening and inspecting representative levels of small intestine (duodenum, jejunum, and ileum)		
☐ opening and inspecting colon		
☐ incising and inspecting pancreas		
☐ examining urogenital tract; sectioning kidneys and following ureters if indicated		
☐ stripping renal capsule		
☐ opening bladder		
☐ examining reproductive tract; incising and inspecting testes or ovaries if animal is sexually intact		
☐ examining spleen (palpates and sections)		

Candidate Name/ID:

Date/Session/Site:

Examiner:

)		
<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
<i>d. Examines muscles and joints (at least one each from a hind and fore limb), to include:</i>		
i. completely opening at least two joints ; inspecting joint surfaces and synovial membranes; using instruments in a safe and appropriate manner		
ii. incising and inspecting two or more major muscles; using instruments in a safe and appropriate manner		
<i>e. Examines endocrine glands, lymph nodes, to include:</i>		
i. locating and inspecting thyroid glands		
ii. locating and inspecting adrenal glands		
iii. locating and inspecting lymph nodes (both peripheral and internal)		
<i>f. Documents on the Necropsy Report Form what, if any, abnormalities were found during the Necropsy exam, to include whether the animal is sexually intact or neutered</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
<i>g. Overall approach to necropsy</i> ☐ Adept and safe handling of instruments appropriate for task Systematic ☐ and thorough approach Organization Observation		
Collect tissue specimens for histopathology. Candidates will be assessed on collecting a complete tissue sample, with all relevant structures, in an appropriate manner and of appropriate representative shape and thickness.	8	
a. Heart i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
b. Lung i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
c. Liver i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
d. Small intestine i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
e. Colon i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
f. Stomach i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
g. Spleen i. tissue of appropriate size, shape, and thickness for diagnostic purposes		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Collect tissue specimens for histopathology <i>(continued from previous page)</i>		
h. Pancreas i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
i. Skeletal muscle i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
j. Kidney i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
k. Thyroid gland i. tissue of sufficient quality for diagnostic purposes		
l. Adrenal gland i. tissue of sufficient quality for diagnostic purposes		
m. Internal lymph node i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
n. Peripheral lymph node i. tissue of appropriate size, shape, and thickness for diagnostic purposes		
o. Appropriate volume of fixative for tissue		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>			
TOTAL POINTS <i>for performing necropsy (92 maximum points possible) and collecting tissue specimens (8 maximum points possible)</i>	100		
Candidates are also assessed on their ability to:	Yes	Warned	No
Complete Necropsy Exam in an appropriate and safe manner.			
Final Score <i>(indicate PASS or FAIL in the cell to the right):</i> A total score of 60 points or more plus a “yes” assessment on the above skill are required to pass the Necropsy Section.			

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ Initials: _____

Signature: _____

Necropsy Appendices

Appendix 1—Dismissible Event List

These are failing behaviors that potentially put the candidate or examination CPE site team members in danger. All are behaviors that may require examiner intervention and will result in a failing grade for the candidate and dismissal from this section of the CPE.

The examiner will stop the Necropsy Section immediately if any one behavior from the following Dismissible Event list is observed (i.e., recognized by the examiner and confirmed by another examiner or veterinary technician):

1. Candidate fails to practice safe handling of sharp instruments; such as cutting tissue samples while holding them in the palm of the candidate's hand leading to potential laceration or placing an exposed blade in a place where it could accidentally lacerate someone or fall and stab someone.
2. Candidate does not dispose of sharps in the correctly designated area (i.e., a sharps container).
3. Consistently uses instruments inappropriately, resulting in excessive tissue damage.
4. Candidate fails to protect him-/herself from possible exposure to zoonotic organisms (e.g., not wearing the correct protective clothing/equipment, including not wearing gloves or appropriate eye protection while handling tissues, touching one's mucous membranes with unwashed hands).
5. Candidate exhibits any other behavior that would put him-/herself or other CPE site team members at risk. The examiner must document the behavior.
6. Candidate refuses to perform any of the required skills listed.

Candidate Name/ID:
Date/Session/Site:

Examiner:

Appendix 2—Necropsy Report Form (page ONE)

Animal provided for Necropsy Degree of Autolysis (circle one): Mild Moderate Severe		
Species _____ Breed _____ Age _____ Weight _____		
<u>Each Candidate to Complete All Information Below and On Following Pages</u>		
Sex of animal _____ Neutered Yes / No Body Condition of animal _____		
Organ System or Structure	Is the organ system/structure normal or abnormal?	If <u>abnormal</u> , please briefly list abnormalities.
Intact Carcass in general		
Skin (e.g., including hair, external body orifices and subcutis)		
Thoracic and Abdominal Viscera, examined in situ		
Cardiovascular System (e.g., myocardium, pericardium, endocardium, valves, blood vessels)		
Respiratory System (e.g., nasal cavity, larynx, trachea, bronchi, lungs, pleura)		
Digestive System (e.g., oral cavity, teeth, tongue, salivary glands, tonsils, pharynx, esophagus, stomach, small and large intestine, liver, pancreas, peritoneal cavity)		
Additional comments/remarks regarding above organ systems:		

Candidate Name/ID:
Date/Session/Site:

Appendix 2—Necropsy Report Form (page TWO)

Organ System	Is the organ system normal or abnormal?	If <u>abnormal</u>, please briefly list abnormalities.
Urogenital System (e.g., kidneys, ureters, bladder, urethra, ovaries, uterus, vagina, vasa deferentia, seminal vesicles, prostate, penis, prepuce)		
Hematopoietic System (e.g., spleen, lymph nodes)		
Musculoskeletal System (e.g., muscles, bones, joints):		
Endocrine System (e.g., thyroids, parathyroids, thymus, adrenals):		
Additional comments/remarks regarding above organ systems:		

Candidate Name/ID:
Date/Session/Site:

Appendix 3—Necropsy Tissue Samples

Sample collection for histopathology
Heart
Lung
Liver
Small intestine
Colon
Stomach
Spleen
Pancreas
Kidney
Skeletal muscle
Thyroid gland
Adrenal gland
Internal lymph node
Peripheral lymph node

RADIOGRAPHIC POSITIONING

Competencies

The Radiographic Positioning section is a single-station section that will assess the candidate's ability to:

- determine anatomical structures and views necessary to radiographically diagnose a clinical condition and produce diagnostic quality radiographic images of those structures

Time

Maximum time, 45 minutes

Set-up Information

1. Animal Requirements—Canine animal of mild temperament (sedated or anesthetized if necessary).
2. People Requirements—1 veterinary examiner per candidate and 1 Exam assistant or veterinary technician per candidate
3. Facilities and Equipment
 - a. X-ray room/area with digital radiographic equipmentTiming device visible from each station to track examination time. Please note that, when possible, timers will be of the “count-down” variety to allow candidates and examiners alike to clearly see time remaining in station or section.
4. Supplies/Information Provided by The Examiner
 - a. Digital radiographic equipment.
 - b. Accessories and supplies for preparing radiographs.
 - c. Safety equipment (gloves, aprons, goggles, etc).
5. Supplies Provided by The Candidate
 - a. Clean laboratory coat.
 - b. Pens/pencils
 - c. Dosimeter (optional; if the candidate wishes to monitor personal levels of radiation during the examination, the candidate will provide their own dosimeter).

General Requirements of the Candidate

Candidates are expected to handle all animals in a humane and safe manner. If, in the opinion of the examiner, the candidate does not handle the animal humanely or handles the animal in a manner that is unsafe to themselves or other CPE site team members or that may potentially harm the animal, the examiner may assess penalties ranging from a reduction in score to termination of the exam and dismissal of the candidate with a failure for the section.

All activities must be completed with the candidate practicing radiation safety. Failure to use appropriate radiation safety precautions including, but not limited to, failure to use mechanical restraint if necessary (leg ties, wedges, etc) and protective gear or shielding behind a protective wall that results in exposing the candidate, the patient, the technician, the CPE site

team members, or the examiner to risk is considered a Dismissible Event and the candidate will be dismissed from this station and receive no points for the station.

Please also refer to the RAD01 Assessment sheet.

Overview of Radiographic Positioning Section

Part A: The candidate will be given a sedated or anesthetized canine animal, and a digital x-ray machine, and all appropriate accessories. The candidate will be provided with a suspected diagnosis for the animal, and the candidate will **position** the animal using leg ties, wedges, etc., in order to produce appropriate diagnostic quality radiographic images to confirm or rule out the suspected diagnosis. The image(s) produced must be the appropriate views of the appropriate anatomic structures/region and be of diagnostic quality.

Part B: Given a digital x-ray machine (KVP, Ma, time settings) and a radiographic technique chart specific for that machine, the candidate will **determine** the required settings for the above exposures, **set** the machine, **employ** radiation safety measures, and **take** the required exposures to obtain appropriate diagnostic quality radiographs. The candidate will be allowed to evaluate the quality of each initial radiographic image and allowed to repeat each image only one time, if desired by candidate. In any situation where images are repeated, the candidate is then allowed to designate which of the two images should be scored. Candidates will be expected to critically evaluate the diagnostic quality of their designated images.

(Note—A veterinary examiner will assess each candidate’s ability to position an animal and take diagnostic quality radiographs)

(Note—See also RAD01 assessment sheet on the following pages)

Standard Script for Radiographic Positioning Section The examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. Time does not begin until all instructions have been given.

“You will be presented with a dog with a suspected diagnosis of _____
(Site to insert a fictitious suspected diagnosis which will then allow evaluation of the candidate’s ability to determine appropriate structures / region to radiograph and appropriate views). You are to determine the appropriate structures or anatomical region to image and the appropriate views to take in order to confirm or rule out the suspected diagnosis. The dog will be sedated or under general anesthesia and you will need to be mindful of any anesthetic delivery and monitoring equipment when repositioning the animal. Using mechanical restraint only (ties, wedges, sandbags, tape, etc.), you are to position the animal appropriately, set the radiographic unit, and make diagnostic images. It will be necessary to take at least two different orthogonal views to provide the best chance for diagnosis for the structure/region in question.

You are not responsible for inputting data onto the digital image, but you are required to evaluate each digital image to determine if it is of diagnostic quality. If you determine

that your first radiographic image is not of diagnostic quality (and you have enough time remaining), you may elect to repeat—one time only—each of the two different views. If you have taken 2 images of the same view, you should then designate which image should be assessed by the examiner. Only one image of the same view may be submitted for scoring. You should evaluate, and discuss with me, the diagnostic quality of your designated images.

You are also responsible for ensuring appropriate radiation safety during this station. Failure to use appropriate radiation safety precautions and exposing yourself, the technician, the CPE site team members, the patient, or the examiner to unnecessary radiation is considered a Dismissible Event and will result in your dismissal from this station and a score of zero for this station.

I am allowed to answer questions only if they relate to aspects of the radiographic unit or associated equipment which I believe you would be unfamiliar. Throughout this station, I will be recording notes pertaining to your behavior, both negative and positive, and will be assessing you on your ability to communicate with me effectively and succinctly. Please do not let my writing affect your performance. You will have 45 minutes to complete this section.”

for Radiographic Positioning (RAD01)

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE	
<i>Part A: Candidate is assessed on their ability to position patient and use of proper radiographic techniques, including selection of appropriate views and structures/ regions.</i>	50		
Part A—First view:			
A Dismissible Event may be issued if radiographs submitted by candidate do not include correct anatomic region for the suspected diagnosis			
i.			
ii.			
Part A—Second view			
A Dismissible Event may be issued if radiographs submitted by candidate do not include correct anatomic region for the suspected diagnosis			
▪			
i.			
ii.			

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE	
<i>Part B: Images designated and critiqued by candidates are assessed for clarity of the visualization of the area of interest and for evidence of the use of appropriate radiographic techniques:</i>	50		
a. First view			
■			
b. Second view			
■			

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>		
<i>Part C: Radiation safety</i>	Used rad. safety	Did not use radiation safety
Failure of the candidate to use appropriate radiation safety (to include but not limited to failure to use mechanical restraint if necessary (leg ties, wedges, etc) and failure to use protective gear or shielding behind protective wall, exposing the candidate, the animal, the technician, the CPE site team members, or the examiner to risk is considered a Dismissible Event and the candidate will be dismissed from, and receive a score of zero for, this section. If radiation safety precautions are observed, it should be so noted here, but no additional points will be provided.		
<i>Part D: Animal Safety</i>	Handled animal safely	Did not handle animal safely
Failure of the candidate to conduct the procedure in a manner that protects the animal's well-being, including inadequate restraint of sedated animals or actions adversely impacting anesthetic equipment placement or function in anesthetized animals. No additional points are associated with satisfactory performance of this skill but points may be subtracted from the overall point total for unsatisfactory performance.		
TOTAL	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ **Initials:** _____

Signature: _____.

SMALL ANIMAL MEDICINE

Competencies

The Small Animal Medicine assesses the candidate's ability to:

- evaluate a clinical small animal (canine or feline) patient medicine case (Station 1: Clinical Evaluation)
- write medical management plans and a prescription for a selected drug based on a case description of a hospitalized patient and orally communicate treatment plans to a veterinary technician (Station 2: Medical Management)
- describe and/or perform clinical techniques commonly used in small animal veterinary practice (Station 3: Clinical Techniques)

Time

SAM01, SAM02, and SAM03 stations are allotted 45 minutes each.

For SAM Station 2 (Medical Management), the 45 minutes are allotted to a written and an oral portion of the exam as follows:

- The candidate will have 35 minutes to complete the written portion and 10 minutes to complete the oral portion of the exam.
- Candidates who are ready for the oral portion prior to 35 minutes may notify the examiner and begin the oral portion at that time.

Set-up Information

1. Animal Requirements
 - a. Canine or feline animal affected by a common clinical condition (Station 1).
 - b. Live animals are not used at Station 2 (Medical Management) as a written record of a dog or cat hospitalized with a common clinical condition will be provided.
 - c. Both live animals and models will be used at Station 3 (Clinical Techniques)
2. People Requirements
 - a. One veterinary examiner per candidate at Station 1
 - b. One veterinary examiner at Station 2
 - c. One veterinary examiner per candidate at Station 3
3. Facilities and Equipment
 - a. 1 small animal examining room for Station 1.
 - b. 1 room/area for Station 2 with appropriate space to allow for reading and writing of medical records.
 - c. 1 room for Station 3
 - d. Timing device visible from each station to track examination time. Please note that, when possible, timers will be of the “count-down” variety to allow candidates and examiners alike to clearly see time remaining in station or section.
4. The candidate must have the following supplies:
 - a. Stethoscope, penlight, clean laboratory coat, pen
 - b. Wristwatch with second hand

5. The following supplies will be provided by the examining site
 - a. Instruments/supplies appropriate for the case and commonly found in examination rooms in a typical US or Canadian veterinary practice .

General Requirements of the Candidate

Candidates are expected to handle all animals in a humane and safe manner. If, in the opinion of the examiner, the candidate does not handle an animal humanely or performs in a manner that is unsafe to the animal, himself/herself or other CPE site team members, the examiner may assess penalties ranging from a reduction in their score to termination of the station and dismissal of the candidate with a “zero” (i.e., Dismissible Event).

The candidate will be awarded a “failing score” with a “zero” for the station if, in the professional judgement of the examiner:

- the candidate jeopardizes the health and well-being of the animal patient in SAM01 (Clinical Evaluation) either through action or inaction, **OR**
- in SAM02 (Medical Management), the candidate prescribes a treatment or management plan that, if this were a real patient, would result in serious harm to, or potentially death of, the patient.
- in SAM03 (Clinical Techniques), the candidate describes or performs a procedure in such a way that would result in serious harm or potential death to an animal patient, regardless of whether the station is using a live animal or a model.

Candidates will not necessarily be informed of a failing score unless their actions comprise an immediate real threat to the health or safety of a live animal or person. In such instances, the candidate’s performance will be terminated, and the candidate will be instructed to proceed to the next skill or activity at that station. If the candidate’s actions constitute a repeated or ongoing threat to an animals’ or persons’ well-being, the candidate may be dismissed from the station. In instances where a candidate earns a failing score for a plan or action that would likely cause serious harm if it were followed but no immediate real threat to a live animal or person exists, the candidate will be allowed to proceed without being informed of the failing score. A candidate that has been awarded a failing score at any Station for the reasons described in the previous paragraphs will fail the entire SAM section but will not be prevented from taking the other stations.

Station One—Clinical Evaluation

Overview of Station One

When possible, a CPE site team member will act as the client with their animal that is affected with a medical condition commonly found in veterinary practice. If a CPE site team member is not available, the examiner will act as the client.

The candidate should:

- question the client to determine the medical history of the patient
- perform a systematic physical examination
- record the results of the history and physical examination on the provided form (*see Appendix One—Small Animal Medicine*)

- develop an initial problem list, differential diagnoses list, and a diagnostic plan, while explaining their reasoning to the client
- request appropriate and reasonable initial diagnostic tests – examiners will provide test results (along with normal values) if those tests were completed.
- interpret the results of diagnostic tests
- refine the differential diagnoses list based on their findings and determine the most likely diagnosis, while explaining their reasoning to the client
- develop a therapeutic plan specific for the patient
- develop a prognosis for the patient
- orally communicate all of the above information to the client

To ensure that all examiners at all sites assess the same competencies during this station, a history and physical examination form is available in the MOA as Appendix 1 to the Small Animal Medicine section. Examiners must provide these forms to each candidate, and this form may be used by all candidates to record the history and physical examination findings. Candidates will also need to discuss/describe findings with/to the examiner. Standard Script for Station One The examiner should read the following to each candidate. Sites should furnish each examinee with a hard copy of the standard script for candidates to follow along and then collect the copies from each examinee. The script may be modified to meet specific facility or equipment restrictions at each site. Time does not begin until all instructions have been given.

“I will be acting as a client presenting a patient for your evaluation. (if examiner is acting as client, if not introduce the CPE site team member) You will need to take a complete history from me and perform a complete physical examination of the patient. You will need to explain all normal and abnormal findings to me. I may ask questions that might be expected of a client; you will need to respond appropriately to those questions and will be assessed on your communication abilities.

You may record your history and physical examination findings on the form provided. Then, communicate an initial problem list, create a list of differential diagnoses for the most relevant problems identified, and develop an initial diagnostic plan. You can request relevant diagnostic tests and you will be provided with results if those tests were performed. At that point, you will need to refine your initial problem and differential diagnoses lists by ruling in or ruling out diagnoses. You may request additional relevant diagnostic exams if necessary. You will also need to tell me what you believe is the most likely diagnosis after which you will need to develop a therapeutic plan. You should also assign an appropriate prognosis for the case. Please note that points will be deducted if you record/describe physical examination findings that are not actually present or if you order tests that are not necessary or are inappropriate for the specific patient.

Please remember to tell me your rationale for the tests you are doing and clinical decisions you are making. Remember, because I am playing the role of the animal owner, I may ask you questions expected of a client.

Throughout this station, I will be assessing you on your ability to perform the skills outlined in the MOA and to communicate effectively. Please do not let my note writing

affect your performance as I will be recording observations, which includes both passing and failing assessments., as well as, observations. If I should nod my head or state “OK,” this only means I have heard what you have said or seen what you have done. It is not a reflection of my assessment. In addition, I may ask questions that a client might ask during a visit.

You will have 45 minutes to complete this station.”

for Small Animal Medicine—Station One (SAM01)

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
History taking Candidates will be assessed on their ability to accurately, effectively, and efficiently communicate with the client/examiner to elicit a complete history of the patient	15	
<i>a.</i>		
<i>b.</i>		
<i>c.</i>		
<i>d.</i>		
<i>e.</i>		
<i>f.</i>		
<i>g.</i>		
<i>h.</i>		
Physical examination	15	
<i>a. Performing a visual distance examination, including assessment of body condition</i>		
<i>b. Performing a thorough and systematic hands-on examination appropriate for the presenting complaint and any other abnormalities specific to the animal used</i>		
<i>c. Appropriate handling of the patient</i>		
<i>d. Accurately assessing the patient (e.g., determining correct heart and respiratory rate, temperature, respiratory pattern, etc). Candidate may lose points for recording a finding that is not actually present.</i>		

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Integration of Clinical Information	14	
<i>a. Identifies patient problems based on history and physical examination</i>		
<i>b. Develops a rational and comprehensive differential diagnoses list for most relevant problems identified</i>		
:		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Diagnostic Approach (logically ordering and justifying diagnostic tests relevant to the problems identified)	13	
<i>a. Comprehensively orders diagnostic tests</i>		
<i>b. Efficiently orders diagnostic tests</i>		
<i>c. Orders diagnostic tests in a logical progression</i>		
<i>d. Justifies the rationale for each diagnostic test requested</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Integration of diagnostic information	18	
<i>a. Interprets diagnostic test results accurately</i>		
<i>b. Uses diagnostic test results to refine the differential diagnoses list and describes how each test result is used to rule in or rule out diagnoses</i>		
<i>c. Arrives at the most likely diagnosis</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Developing therapeutic plan <i>Note: points will be deducted for developing a correct therapeutic plan for a set of differentials that does not include the correct diagnosis.</i>	15	
a. <i>Developing a therapeutic plan specific for the patient, to include addressing treatment and appropriate follow-up. The candidate should also address prevention and control issues.</i>		
b. <i>Developing the appropriate prognosis for the case presented</i>		
:		
Communication skills	10	
a. <i>Candidate communicates clearly and effectively with the client/examiner throughout the case</i>		
b. <i>Effectively answering the client/examiner's questions</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

TOTAL	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ **Initials:** _____

Signature: _____.

Station Two—Medical Management

Overview of Station Two

The candidate will have 35 minutes to complete the written portion and 10 minutes to complete the oral portion of the exam. The written portion will last no more than 35 minutes. Each candidate must manage their time to ensure they have sufficient time to write the medical record, treatment orders, and prescription within the 35-minute period. Candidates who are ready for the oral portion prior to 35 minutes may notify the examiner directly and begin the oral portion at that time. This station will end no more than 45 minutes after the station began.

The candidate will be given a written clinical case scenario (e.g., signalment, history, initial physical examination findings, and initial diagnostic test results) for a hospitalized patient. The candidate will use the Medical Assessment Form (see Appendix 3 of this section of the MOA) to write a **summary assessment** of the patient. The candidate will have 35 minutes to complete a written summary assessment which should include the following: an initial summary assessment and a problem list, a differential diagnosis list, a tentative initial diagnosis, and a tentative prognosis. The candidate will also complete the Treatment Order Form in Appendix 4 (e.g., additional diagnostic tests required for the next 12 hours, a therapeutic plan for the next 12 hours that includes any drug dosages and fluid rates, monitoring parameters, and contingency plans) for a veterinary technician who will be monitoring the patient for the next 12-hour time period. The candidate will also write a prescription appropriate for management of the case using the Prescription Form (see Appendix 2 of this section of the MOA). The candidate will have 10 minutes to orally communicate their assessment and written orders to a veterinary technician who will be caring for the patient for the next 12 hours and answer questions related to those orders. (When possible, a CPE site team member will act as the veterinary technician who will be caring for the patient. If a CPE site team member is not available, the examiner will act as the veterinary technician).

When required and requested by the candidate, standard laboratory data for appropriate diagnostic tests will be provided in written form with normal values.

Written records and orders will include the following:

- a summary assessment of the findings listed on the Medical Assessment form and the Treatment Order form
- an initial differential diagnoses list
- a tentative/initial diagnosis
- additional diagnostic tests required
- a treatment plan to include any drug dosages or fluid rates
- physiological parameters to be monitored by the veterinary technician and how often
- actions to be taken by the veterinary technician if monitored parameters fall outside of an acceptable range or if the animal displays abnormal signs specified by the candidate
- initial prognosis
- other relevant case information or treatment orders

Candidates will not be scored on writing quality or simple spelling errors, but the written records/ treatment orders must be legible, coherent, and recorded in a logical and systematic manner.

Standard Script for Station Two The examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. Time does not begin until all instructions have been given. “You will be given a written clinical case scenario (signalment, history, initial physical examination findings, and any initial diagnostic test results already completed) for a hospitalized patient. Based upon this written information, you will have 35 minutes to develop and write a summary assessment and an initial management plan for the patient, to include treatment orders and a prescription.

Please assume you are writing medical records, which are considered legal documents. Also assume you are caring for a real patient. If you prescribe a treatment or management plan that would result in serious harm to, or death of, a real patient, you may receive a “failing score resulting in a score of zero for this station of the SAM section.

Your written assessment should include any or all the following: an initial assessment and problem list, a differential diagnosis list, a tentative initial diagnosis, and a tentative prognosis

In addition to the initial assessment, you will need to record treatments ordered for the next 12-hour time period on the Treatment Order Form. Treatment orders should include any additional diagnostic tests required for the next 12 hours, a therapeutic plan for the next 12 hours that includes any drug dosages and fluid rates, and one prescription to be written on the supplied form for a prescribed drug appropriate for the patient. A formulary is available for your use. The treatment orders should be specific for timing, dosages, and routes of administration as they pertain to additional diagnostic tests, monitoring parameters, and medications so that the orders can easily be understood by a veterinary technician who will be carrying out your orders.

You will not be scored on writing quality or spelling per se, but your initial assessment and management plan, treatment orders, and prescription must be legible, coherent, and recorded in a logical and systematic order.

If you complete the written portion before 35 minutes and wish to begin the oral communication, please notify me. I will be waiting [**sites must specify where the examiner will be so that the candidate does not waste any time notifying them, e.g., inside, or right outside the room where the candidate is writing the record**]. Otherwise, we will start the oral communication part of the assessment with 10 minutes remaining at this station.

During the oral portion, I will be acting as the veterinary technician who will be caring for the case for the next 12 hours. (If examiner is acting as the client, if not, introduce the CPE site team member.) You will need to discuss with me your summary of the patient,

explain your treatment orders, and answer any questions I might have regarding the record or orders.

It is your responsibility to manage your time so that you can complete both the written and oral portion for this station. Again, the written portion of the exam will last no longer than 35 minutes, then you will have 10-minutes for the oral communication portion of the exam for a total of up to 45 minutes at this Station.”

for Small Animal Medicine—Station Two (SAM02)

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Written record Candidates will be assessed on their ability to write a medical record accurately and logically, which may include the following:	80	
<i>a. Accurately writing a concise assessment using case information provided including:</i> ▪ <i>providing a problem list ,</i> ▪ <i>a list of the top 3 differential diagnoses ,</i> ▪ <i>a tentative diagnosis ,</i> ▪ <i>a tentative prognosis ;</i> ▪		
<i>b. Accurately recording treatment orders that reflect the management plan.</i> ▪		
<i>c. Accurately writing an example of a legal prescription appropriate for the case/patient.</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

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Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
Oral communication Candidates will be assessed on the following competencies:	20	
<i>a. Communicating the treatment plan and any relevant information from the medical record to the examiner acting as the veterinary technician.</i>		
<i>b. Concisely answering questions that the examiner, acting as the veterinary technician, may have regarding the written assessment or treatment orders developed by the candidate.</i>		
TOTAL	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ **Initials:** _____

Signature: _____

Candidate Name/ID:

Date/Session Site:

Examiner:

Station Three—Clinical Techniques

Overview of Station Three— The candidate will be expected to complete 7 randomly selected skills – 2 skills from Part A and 5 skills from Part B.

Standard Script for Station Three

Prior to beginning this station, the examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. The time should not begin until all of the instructions have been given. “In this Clinical Techniques Station, you will perform 7 common veterinary clinical procedures, which you may randomly select by picking 2 of the 4 laminated cards for Part A skills and 5 of the 13 laminated cards for Part B skills. You may refer back to your selected cards as you progress through this station, so you do not have to memorize the skills you are required to perform. Some of the skills will involve the use of live animals, while you will use models to demonstrate some of the other skills. You should explain to me what you are doing as you are demonstrating or performing these clinical techniques. You may complete the skills in any order. You will have a total of 45 minutes to complete all 7 skills, so please plan accordingly.”

Part A Skills:

1. Gather the necessary equipment for, and demonstrate how to perform, cystocentesis.
2. Gather the necessary equipment for, and demonstrate how to perform, thoracocentesis.
3. Gather the necessary equipment for, and demonstrate how to perform, abdominocentesis.
4. Gather the necessary equipment for, and demonstrate how to perform, urinary catheterization of a male dog.

Part B Skills:

1. Listen to and interpret 2 cardiac sounds and describe as normal or abnormal. If abnormal, describe the abnormality (i.e., type of murmur or arrhythmia).
2. Gather the necessary equipment for, and demonstrate how to perform, jugular venipuncture.
3. Calculate and draw-up the correct dosage of an antibiotic, given the dose and the size of the animal
4. Perform an evaluation of the integrity of the cranial cruciate ligament on a dog for suspected ruptured ligament.
5. Perform a urine specific gravity and determine if a cat’s kidneys are concentrating the urine appropriately.
6. Starting with a blood sample in an EDTA tube, describe how to determine a packed cell volume (PCV) and total protein (TP), and determine the PCV and TP of a prepared hematocrit tube.
7. Perform a patellar reflex evaluation and describe how it could be affected by a spinal lesion.
8. Perform a skin scraping for suspected demodex using live animal and model
9. Perform one of the following cranial nerve examinations, describe the expected response to the procedure and state which cranial nerves are being tested: Menace Response, Facial Sensation, Gag Reflex, Pupillary Light Reflex.
10. Perform a fine needle aspirate on a fruit model and prepare a slide for analysis.
11. Perform a Schirmer tear test and interpret the results.
12. Perform a Fluorescein stain and interpret the results.
13. Perform a proprioceptive examination and interpret the results.

Candidate Name/ID:

Date/Session Site:

Examiner:

for Small Animal Practice—Station Three (SAM03)

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
PART A Candidate is scored on ability to perform correctly and efficiently 2 of the following 4 skills:	40	
1. Gather the necessary equipment for and describe and demonstrate how to locate the bladder and perform a cystocentesis on a live animal. The actual cystocentesis will be performed on a stuffed animal model.		
a.		
2. Gather the necessary equipment for, and describe how to perform, thoracocentesis on a live animal. Demonstrate the technique on a stuffed animal model.		
i.		
3. Gather the necessary equipment for, and describe how to perform, abdominocentesis on a live animal. Demonstrate the technique on a stuffed animal model.		
i.		
4. Gather the necessary equipment for, and describe how to perform, urinary catheterization of a male dog. Demonstrate passage of a catheter on a suction tube model.		
i.		
ii.		
a.		

Candidate Name/ID:

Date/Session Site:

Examiner:

--

Candidate Name/ID:

Date/Session Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
PART B Candidate is scored on ability to perform correctly and efficiently 5 of the following 13 skills:	60	
5. Calculate and draw-up a correct dose of an antibiotic, given the dosage and the size of the animal.		
6. Perform evaluation of integrity of cranial cruciate ligament on a dog for suspected ruptured ligament.		
<i>i.</i>		
<i>a.</i>		
7. Perform a urine specific gravity and determine if a cat's kidneys are concentrating the urine appropriately.		
<i>i.</i>		
8. Starting with a blood sample, in an EDTA tube, describe how to determine PCV and TP, and determine the PCV and TP of a prepared sample.		
<i>i.</i>		
9. Perform a patellar reflex evaluation and describe how it could be affected by a spinal lesion.		
<i>i.</i>		
10. Perform a skin scraping for suspected demodex using live animal and model		
<i>i.</i>		

Candidate Name/ID:

Date/Session/Site:

Examiner:

<i>Activity/Skill</i>	MAX POINTS	CANDIDATE SCORE
PART B - Continued		
13. Perform a Schirmer tear test and interpret results		
<i>i.</i>		
14. Perform a fluorescein stain and interpret results		
<i>i.</i>		
15. Perform a proprioceptive examination and interpret results		
<i>i.</i>		
16. Listen to and interpret two (2) cardiac sounds		
<i>a.</i>		
<i>a.</i>		
17. Gather the necessary equipment for, and demonstrate how to perform, jugular venipuncture.		
TOTAL POINTS	100	

Candidate Name/ID:

Date/Session/Site:

Examiner:

Primary examiner's name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ **Initials:** _____

Signature: _____

Small Animal Medicine Summary Score Sheet

Small Animal Medicine Summary and Final Score Sheet Candidate Name/ID:			
Date/Session/Site:			
STATION	Raw Points Awarded	Weighting	Weighted Points Awarded
STATION 1: Clinical Evaluation Total points awarded from SAM01 Assessment		40%	
STATION 2: Medical Management Total points awarded from SAM02 Assessment		40%	
STATION 3: Clinical Techniques Total points awarded from SAM03 Assessment		20%	
FINAL SCORE (60 weighted points required to pass)		100%	

Small Animal Medicine Appendices
Appendix 1—History and Physical Examination Form

Candidate Name:

CPE Site/Date/Session (AM/PM)

Patient Species:

Date: _____

Presenting Complaint: _____

RECORDING GUIDE

1. Presenting Complaint
2. History of present illness
3. Past History
 - a) medical
 - b) surgical
 - c) trauma
 - d) vaccinations
4. Husbandry
5. Systems Review
 - a) integumentary
 - b) ophthalmic
 - c) otic
 - d) respiratory
 - e) cardiovascular
 - f) gastro-intestinal
 - g) urinary
 - h) reproductive
 - i) musculoskeletal
 - j) lymphatic
 - k) nervous
6. Signature

Candidate Name:

CPE Site/Date/Session (AM/PM)

Patient Species:

Date: _____

Presenting Complaint: _____

CHECK ABNORMAL AND DESCRIBE BELOW

1. General Appearance
2. Cardiovascular
3. Respiratory
4. Nervous
5. Musculoskeletal
6. Integumentary
7. Urinary
8. Reproductive
9. Gastro-intestinal
10. Lymphatics
11. Ophthalmic
12. Otic
13. Mucous
14. Membranes
15. Oral Cavity
16. Other

Temperature
Pulse
Respiration
Weight
Temperament

Appendix 2—Prescription Form

Candidate Name:

CPE Site/Date/Session (AM/PM):

Client name: _____

Client Address: 123 Main St, Columbus, Ohio

Client phone number: 432-123-4567

Animal name: _____

Species: _____

Rx

☐ Nonrefillable ☐ Refillable (_____ times through _____ [date])

DVM name: _____ DEA/Reg Number: 12345

DVM signature: _____ Date: _____

DVM Address: Animal Care Clinic, Columbus, Ohio

Appendix 3—Medical Assessment Form

-Page 1-

CPE SITE/DATE/SESSION (AM/PM): _____

CANDIDATE Name/ID _____

PATIENT INFORMATION (to be completed by the site)

SPECIES/BREED: _____ AGE: _____

NAME: _____ SEX: _____

WEIGHT: _____ DATE ADMITTED: _____

OWNER NAME: _____ OWNER PHONE: _____

OWNER ADDRESS: _____

ADMISSION HISTORY AND PHYSICAL EXAMINATION FINDINGS (provided by the site)

CANDIDATE'S INITIAL ASSESSMENT WRITTEN IN AN ORDERLY FORMAT

NOTE: Candidate must also complete treatment orders (Appendix 4) and attach a completed prescription form (Appendix 2) for one appropriate prescribed drug

Appendix 3— Medical Assessment Form

-Page 2-

DATE:

CANDIDATE NAME/ ID:

Appendix 3— Medical Assessment Form

-Page 3-

DATE:

CANDIDATE NAME/ ID:

CANDIDATE'S WRITTEN RECORDS (*continued*)

Appendix 3— Medical Assessment Form

-Page 4-

DATE:

CANDIDATE NAME/ID:

CANDIDATE'S WRITTEN RECORDS (*continued*)

Appendix 4— Treatment Order Form

PATIENT TREATMENT ORDERS—PAGE 1 (assume a veterinary technician is taking over care and monitoring of patient from 5 pm-5 am)

Client Last Name:				TENTATIVE DIAGNOSIS									
Pet Name:													
Signalment:													
Doctor (Candidate) Name:													
Date:													
MONITORING PARAMETERS	5 p	6 p	7 p	8 p	9 p	10 p	11 p	12 a	1 a	2 a	3 a	4 a	5 a

Small Animal Medicine

FLUID TYPE AND RATE													
MEDICATIONS AND OTHER THERAPIES (including concentration, volume, and route of administration)	5 p	6 p	7 p	8 p	9 p	10 p	11 p	12 a	1 a	2 a	3 a	4 a	5 a
DIAGNOSTIC TESTS													

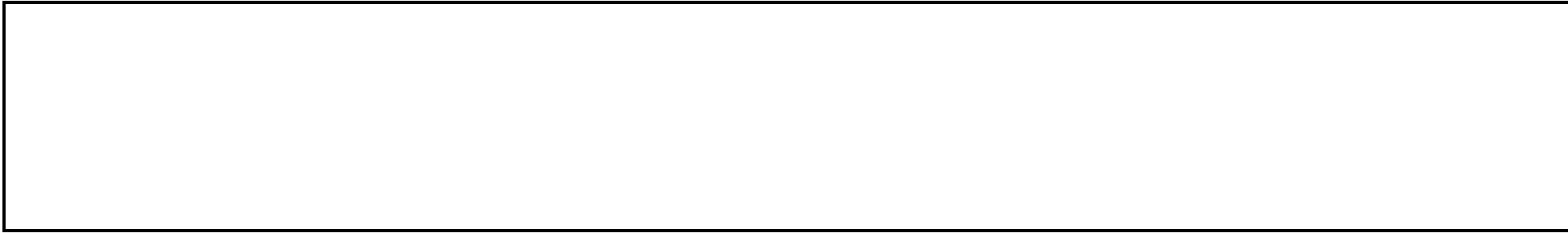
Appendix 4— Treatment Order Form

PATIENT TREATMENT ORDERS—PAGE 2 (assume a veterinary technician is taking over care and monitoring of patient from 5 pm-5 am)

Doctor (Candidate) Name:

Date:

ADDITIONAL INFORMATION (eg, When to contact the doctor in charge, etc):



Candidate Name/ID:

Date/Session/Site:

Examiner:

SURGERY

Competencies

The surgery portion will assess the candidate's ability to:

- prepare the patient for a surgical procedure,
- prepare himself/herself for a surgical procedure,
- perform the surgical procedure.

ECFVG candidates may find it helpful to review small animal surgery techniques as described in up-to-date standard textbooks such as:

- Fossum TW, et al. *Small Animal Surgery*, 5th ed. (2018), Mosby Year Book.
- Johnston S, Tobias K, *Veterinary Surgery Small Animal*, 2nd ed (2017), Elsevier.

Time

Maximum time: 2.5 hours from initiation of patient preparation and transfer of the patient to the surgery room to completion of surgical procedure (placement of final skin suture) – including time required for extra instruments or suture material requested, or for changing gown and gloves. Candidates not completing the surgical procedure in this time period will fail the Surgery Section of the CPE. However, at the examiner's sole discretion, a candidate's clock might be stopped as appropriate during an excessive delay that is preventing the candidate from continuing with the procedure.

The timer will begin when the candidate arrives at their patient in the surgical suite.

Set-up Information

1. Animal Requirements: One female dog per candidate, 6-28kg (BCS within 2-4 out of 5), not visibly or palpably pregnant, not visibly in heat (i.e., no visible external evidence of bloody vaginal discharge), acceptable anesthetic risk based on physical examination.

Extreme care will be made to ensure dogs used in this section are sexually intact. However, should a candidate discover after opening the abdomen that an ovariohysterectomy had previously been performed, the candidate will indicate this to the examiner by identifying and demonstrating the ovarian pedicles and the uterine stump. The examiner will then evaluate the candidate's skill in closing the surgical site. No additional time will be added.

2. Minimum CPE site team member Requirements

- a. One veterinary examiner per no more than 3 candidates

- a. *Optional*: Surgical auditor(s)

- i. *A surgical auditor or surgical examiner will be responsible for checking the following steps of the procedure: the removal of ovaries and uterus and security of associated ligature and the security of the abdominal wall closure. Candidates may not proceed past these steps without a surgical examiner or surgical auditor confirming they are sufficient. If any of these checkpoints are found to be deficient, the candidate will be dismissed from the exam.*

1. *Note: once the surgical examiner or surgical auditor is called over, candidates cannot go back and correct any deficiencies.*

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Examiner:

- b. One Exam assistant or veterinary technician per no more than 4 candidates
- 3. Facilities and Equipment
 - a. Rooms (or areas) equipped for the preparation of animals for surgery
 - b. Rooms (or areas) equipped to carry out the required surgical procedures
 - c. Timing device visible from each station to track examination time. Please note that, when possible, timers will be of the “count-down” variety to allow candidates and examiners alike to clearly see time remaining in station or section.
- 4. Supplies/Information Provided by The Examiner
 - a. Surgical supplies and clothing commonly used for the teaching of undergraduate veterinary surgery, including an assortment of suture materials, gloves, masks, caps, etc.
 - b. Sterile surgical gown pack; use of/gowning with to be demonstrated during orientation.

There will be variation in the type of supplies available for surgery. Candidates will need to have some flexibility in the selection of appropriate material. Candidates may be asked to use either standard gowns or wrap-around gowns.

- 5. Supplies Provided by The Candidate
 - a. Stethoscope, rectal thermometer, penlight, clean laboratory coat, surgical scrubs

General Requirements of the Candidate

Should a candidate receive an “inadequate behavior/low risk to patient” assessment for three or more skills, they will be allowed to complete the Surgery section (unless the cumulative errors put the animal’s life in danger but will receive a failing grade for this section.

Candidates who receive an “**INADEQUATE/HIGH RISK TO PATIENT OR DID NOT PERFORM AT ALL**” assessment (corresponds to the column on the SU01 assessment sheet marked with an *) for any one skill will fail the Surgery section but may be allowed to continue. Alternatively, the examiner **MAY** stop the candidate from continuing in the Surgery Section; then identify, verify with a second examiner/observer, record, and correct a Dismissible Event; and award the candidate a **FAILING GRADE** for the Surgery Section. Candidates awarded a Dismissible Event will be dismissed and not be allowed to complete the Surgery Section.

Dismissible Events are failing behaviors that potentially put the animal’s well-being or life at risk, or subject CPE site team members to potential danger. Examples of common Dismissible Events are shown in Appendix 1 of this section.

It is imperative that candidates maintain aseptic technique throughout the procedure. If, at any time during the preparation, gowning, and gloving, or draping of the patient, the candidate accidentally contaminates themselves or the surgical field, the candidate should immediately notify a technician or an examiner and will be given the opportunity to correct the situation. If breaks in aseptic technique during these stages are observed by a technician or examiner and the candidate does not recognize or indicate that that has happened, the candidate will be informed that they have contaminated themselves or the surgical field, given a warning, and allowed to correct the situation. The timer will continue to countdown. Candidates who do not take appropriate and complete actions to address and correct a break in aseptic technique will be given a Dismissible Event and excused from the remainder of the procedure.

Candidate Name/ID:

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Examiner:

Once the surgical incision is made (i.e., the surgical procedure has begun), candidates **are not** given any warnings for a break in aseptic technique that they do not recognize. During the surgical procedure, candidates must recognize any break in aseptic technique, inform the examiner that they need to correct the situation, and then appropriately and completely address the break in asepsis. If the candidate fails to appropriately and completely address the break, the candidate will be given a Dismissible Event and dismissed from the remainder of the procedure. Additionally, if the examiners or technicians observe a candidate break aseptic technique during the surgical procedure and the candidate does not recognize or take proper steps to correct it, the candidate will be issued a Dismissible Event for putting the animal's life at risk.

Please note that there are many factors that go into the pass/fail decision in this section. Successful entry-level performance of the skills assessed in the Surgery Section involves much more than having the patient survive the surgery—in other words, more than getting through the procedure without being dismissed for committing a Dismissible Event. Candidates are also reminded that the ECFVG is evaluating clinical procedures on a living animal that may result in deleterious, even fatal consequences to that animal. Therefore, the assessment of the adequacy of the surgical procedure can be affected by the discovery of clinical changes after the procedure is completed that can be ultimately traced to errors made by the candidate surgeon leading to awarding of a Dismissible Event after the surgical procedure has been completed. Candidates should be aware that the final score for the surgery section is not determined until 24 hours after completion of the surgery. Complications arising from surgical error within the initial 24-hour post-operative period will adversely affect their score for the surgery section. Examples of such complications include, but are not limited to, intraabdominal haemorrhage due to inadequate vascular ligation or herniation or dehiscence of abdominal contents due to inadequate abdominal wall closure.

Overview of the Surgery Section

The candidate will perform an elective ovariohysterectomy on a dog anesthetized by another candidate or an anaesthetist. A CPE team member will be available to provide materials but must be instructed by the candidate in all actions to perform. Candidates should assume that surgery is being performed on a client-owned animal that will be going home after a sufficient recovery period within the veterinary hospital.

Once the dog is anesthetized, the candidate will prepare the dog for ovariohysterectomy, prepare him or herself to perform the surgery aseptically; and perform the ovariohysterectomy. As the candidate progresses through the surgery, there are several points at which the candidate must ask the examiner to check the patient before continuing with the procedure.

- Candidates should notify a member of the exam team that they are ready to begin the incision.
- Candidates must demonstrate each ovarian pedicle and the uterine body ligatures to the surgical examiner or surgical auditor prior to releasing those structures into the abdomen and leave the excised reproductive tract on the instrument tray so that the surgical examiner or surgical auditor can assess the tract as time permits. Once the surgical examiner or surgical auditor is called over to assess these structures, the candidate cannot return to

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Examiner:

correct any deficiencies in procedure if they occur. If the removal is found to be insufficient, the candidate will be dismissed from the examination.

After the surgical examiner or surgical auditor is done with their assessment, and if the removal is sufficient, the candidate may proceed with the abdominal wall closure.

- Candidates must inform the examiner when they are ready to start the abdominal wall closure and must also state the size and type of suture material they will use during the closure.
- Candidates must announce to the surgical examiner or surgical auditor when they have completed the abdominal wall closure and must wait for the surgical examiner or surgical auditor to check the closure before continuing on with closure of the skin and subcutaneous layers. If the abdominal wall closure is found to be insufficient, the candidate will be dismissed from the examination. If the abdominal wall closure is found to be sufficient, the candidate may proceed to the subcutaneous and skin closure as time allows.
- If a candidate must wait for the surgical examiner or surgical auditor to evaluate the ligatures, the surgical site before beginning the abdominal wall closure, or the completion of the abdominal wall closure, the time spent waiting will be added to the candidate's total allowed time (i.e., time spent waiting for the examiner will not count against the candidate's total allowed time for this section).

(Note—See also SU01 Assessment Sheet on the following pages)

Standard Script for Surgery Section. The examiner should read the following script (in quotes) to each candidate. The script may be modified to meet specific facility or equipment restrictions at each site. Time should not begin until all instructions have been read.

“In this section, you will be the veterinary surgeon. A technician will be available to assist you, but only at your request and direction. We will be evaluating your performance and will be recording both positive and negative actions. Please do not let our writing affect your performance. We cannot offer feedback during or after the examination, but we will interrupt and stop the examination if you commit an error that places the animal in a potentially life-threatening situation or yourself or other CPE site team members in danger. If you are excused, please understand that it is not a personal decision, and you will be required to leave the area immediately. Trying to discuss the situation may detract from the examiner's ability to evaluate other candidates and place them at a disadvantage.

You will be performing an elective ovariohysterectomy on a dog. Please assume the surgery is being performed on a client-owned animal that will be going home after a sufficient recovery period within your hospital.

Once the dog is anesthetized, you will be required to prepare the dog for ovariohysterectomy and prepare yourself to perform the ovariohysterectomy aseptically. Note: The CPE site team will perform the clipping the patient's hair and the initial scrub ('rough prep' 'dirty prep') of the surgical site.

You will need to request supplies or equipment as needed for surgical preparation and the surgical procedure. If the specific supply or equipment you request is not available, you will be

Candidate Name/ID:

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Examiner:

asked to make another choice from the equipment and supplies we have available here. Please note that staples and tissue adhesive are not available for use for skin closure.

It is imperative that you maintain aseptic technique throughout the procedure. If, at any time during the preparation, gowning and gloving, or draping of the patient you accidentally contaminate yourself or the surgical field, you should immediately notify a technician, or an examiner and you will be given the opportunity to correct the situation. If a break in aseptic technique during these stages is observed by a technician or examiner and you do not recognize or indicate that that has happened, you will be informed that you have contaminated yourself or the surgical field, and allowed to correct the situation. The timer will not stop. Candidates who do not take appropriate and complete actions to address and correct a break in aseptic technique will be given a Dismissible Event and excused from the remainder of the procedure.

Please notify your examiner when you are ready to begin your incision. Once the surgical incision is made (i.e., the surgical procedure has begun), candidates are not given any warnings for an unrecognized break in aseptic technique. During the surgical procedure, candidates must recognize any break in aseptic technique, inform the examiner that they need to correct the situation, and then appropriately and completely address the break in asepsis. If, in the examiner's opinion, the candidate fails to appropriately and completely address the break, the candidate will be given a Dismissible Event and excused from the remainder of the procedure. Additionally, if the examiners or technicians observe a candidate break aseptic technique during the surgical procedure and the candidate does not recognize or take proper steps to correct it, the candidate will be issued a Dismissible Event for putting the animal's life at risk.

During the surgical procedure, once you have ligated the ovarian pedicles and uterine body, you must demonstrate the ligatures to the surgical examiner or surgical auditor prior to releasing them into the abdomen. Failure to do so may result in a considerable time delay as you retrieve the ovarian pedicles and uterine stump for surgical examiner or surgical auditor to evaluate. Once you have excised the reproductive tract, please leave it on the instrument tray so that the surgical examiner or surgical auditor can assess the reproductive tract as time permits.

You must inform the examiner when you are ready to start the abdominal wall closure and state the size and type of suture material you plan to use for the closure. After you have completed the abdominal wall closure, you will need to have the surgical examiner or surgical auditor come over to assess your closure before proceeding. Any time spent waiting for the surgical examiner or surgical auditor for any of the above assessment points will not be counted against your total time allowed for this section.

We have made every attempt to ensure all dogs used in this section are sexually intact. However, if you discover your patient has already been spayed, you will be required to identify and demonstrate the ovarian pedicles and uterine stump, or the absence of ovaries and intact uterus, to the examiner prior to closing the incision.

You have 2.5 hours to complete this section of the CPE from initiation of patient preparation to placement of the final skin suture. Please plan your time accordingly." for Surgery (SU01)

Skills to be assessed include those involved in:

Candidate Name/ID:

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Examiner:

- a. Patient and surgeon preparation.
- b. Performing an ovariectomy.

Patient Preparation—Candidates will be assessed on their ability to prepare the patient's surgical site for aseptic surgery :	Adequate/ Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
HAIR REMOVAL AND INITIAL SCRUB ('ROUGH PREP' 'DIRTY PREP') – COMPLETED BY CPE SITE TEAM	N/A	N/A	N/A
PATIENT POSITIONING .			
STERILE SKIN PREPARATION COMPLETED IN SURGERY SUITE .			

Candidate Name/ID:

Date/Session/Site:

Examiner:

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Surgeon Preparation—Candidates will be assessed on their ability to prepare themselves for an aseptic surgery :	Adequate / Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
ATTIRE & SCRUBBING .			

Surgeon Preparation—Candidates will be assessed on their ability to prepare themselves for an aseptic surgery :	Adequate / Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
GOWNING/GLOVING .			

Candidate Name/ID:

Date/Session/Site:

Examiner:

Surgery Preparation—Candidates will be assessed on their ability to prepare themselves for an aseptic surgery :	Adequate / Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
DRAPING .			

Candidate Name/ID:

Date/Session/Site:

Examiner:

Ovariohysterectomy—Candidates will be assessed on following skills :	Adequate / Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
SURGICAL INCISION .			

Candidate Name/ID:

Date/Session/Site:

Examiner:

Ovariohysterectomy—Candidate assessed on following skills (continued) :	Adequate / Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
EXCISION OF OVARIES .			

Candidate Name/ID:

Date/Session/Site:

Examiner:

Ovariohysterectomy—Candidate assessed on following skills (continued) :	Adequate / Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
REMOVES MAJORITY OF UTERUS .			

Candidate Name/ID:

Date/Session/Site:

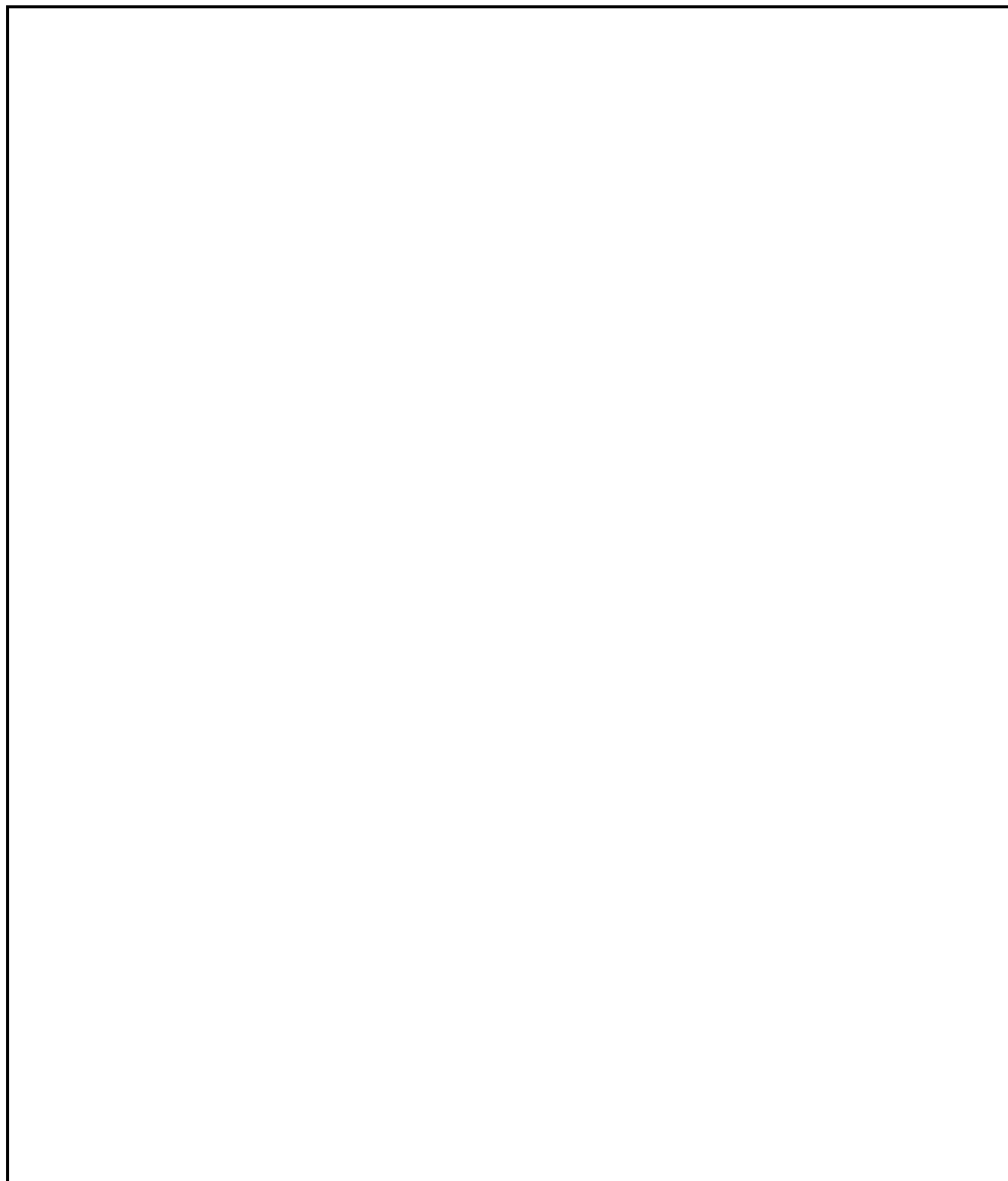
Examiner:

Ovariohysterectomy—Candidate assessed on following skills (continued) :	Adequate / Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
ABDOMINAL WALL CLOSURE .			

Candidate Name/ID:

Date/Session/Site:

Examiner:

A large, empty rectangular box with a thin black border, occupying the central portion of the page. It is intended for the candidate to perform or be assessed on a surgical skill.

Candidate Name/ID:

Date/Session/Site:

Examiner:

Ovariohysterectomy—Candidate assessed on following skills (continued) :	Adequate / Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
CREATES SECURE SUBCUTANEOUS AND SKIN CLOSURE .			

Candidate Name/ID:

Date/Session/Site:

Examiner:

Ovariohysterectomy—Candidate assessed on following skills (continued) :	Adequate / Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
TISSUE HANDLING .			
HEMOSTASIS .			
KNOT TYING AND LIGATURES .			
Ovariohysterectomy—Candidate assessed on following skills (continued) :	Adequate / Pass	†Inadequate with low risk to patient	*Inadequate with high risk to patient OR did not perform task OR Dismissible Event
PREVIOUSLY SPAYED ANIMAL .			
OVERALL SURGICAL EFFICIENCY .			

Candidate Name/ID:

Date/Session/Site:

Examiner:

A large, empty rectangular box with a thin black border, occupying the central portion of the page. It is intended for the candidate to perform or be assessed on a surgical skill.

Candidate Name/ID:

Date/Session/Site:

Examiner:

Receiving three (3) or more “Inadequate with Low Risk to patient” assessments or one (1) “Inadequate with High Risk to patient” assessment will result in failure of the surgery section.

FINAL SURGERY SECTION SCORE (PASS OR FAIL)

Primary examiner’s name, initials & signature (required on all assessment sheets regardless of final score):

Name (print): _____ **Initials:** _____

Signature: _____ **If utilized, Surgical Auditor’s Name:**

Name (print): _____.

Surgery Appendices

Appendix 1—Dismissible Event List

These are examples of some but not all failing behaviors that potentially put the animal's life at risk or CPE site team members in danger. All are behaviors that may require examiner intervention and will result in a failing grade for the candidate and dismissal from this section of the CPE.

The examiner will stop the Surgery Section immediately if any one behavior from the following Dismissible Event list is observed (i.e., recognized by the examiner and confirmed by another examiner or observer):

1. Candidate fails to control significant hemorrhage.
2. Candidate fails to create a secure closure of the abdominal wall.
3. Candidate is unable to achieve and maintain an aseptic field (to include patient and surgeon preparation).
4. Candidate causes significant damage to other tissues/organs (e.g., clamping or tying off one or both ureters, inclusion of cervix in removal of uterus).
5. Candidate exhibits any other behavior that would put the animal's life at risk. The examiner must document the behavior (e.g., leaving instrument/ sponge/ other surgical equipment in animal).