

## Small Animal Diagnostic Imaging

### Mentorship

VM 21800

Criteria

Logbook

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### Clinical Mentorship Tasks

1. Video verification of required equipment and supplies
2. Produce a diagnostic abdominal series on a canine patient (Le Lat or Rt Lat, VD) †
3. Produce a diagnostic thoracic series on a canine patient (Le Lat or Rt Lat, VD) †
4. Produce a diagnostic abdominal or thoracic series on a feline patient (Le Lat or Rt Lat, VD) †
5. Radius/ulna on canine or feline patient (antebrachium) series †
6. Shoulder joint on canine or feline patient (scapulohumeral joint) series †
7. Stifle joint on canine or feline patient (femorotibial) series †
8. Pelvis Series on a canine patient (OFA)†
9. Intraoral full mouth dental radiographs (**intubated canine or feline patient**) ††
10. Produce a radiographic log of all patients utilized for this mentorship course

***ALL SKILLS MUST BE DEMONSTRATED ON LIVE ANIMALS (unless noted otherwise in the task). Tasks 4-8 orthopedic series must be demonstrated on sedated live patients. Models are not acceptable for any tasks in this mentorship.***

## Student Information

### Contact Information

Questions regarding this mentorship (tasks, due dates, etc.) should be directed to:

Liane Shaw, MSHE, BS, RVT, VTS-DI

[lkshaw@purdue.edu](mailto:lkshaw@purdue.edu)

Questions regarding the overall Clinical Mentorship process should be directed to:

Jennifer Smith, BS, RVT, LATG

Clinical Mentorship Coordinator

[jpope@purdue.edu](mailto:jpope@purdue.edu)

## Animal Use Guidelines

The student shall abide by the following guidelines when performing mentorship tasks:

1. All tasks must be performed on live animals, unless noted otherwise in task requirements. Models are not acceptable unless explicitly stated.
2. All animals used for demonstration of mentorship skills must be appropriately restrained by another person, for the safety of the patient and the student.
3. A mentorship task may be performed only once on a single animal.
4. A student may perform a maximum of six (6) minimally invasive tasks (denoted by one dagger symbol) (†) on a single animal within a 24-hour period.
5. A student may perform a maximum of three (3) moderately invasive tasks (denoted by two dagger symbols) (††) on a single animal within a 24-hour period.
6. When combining tasks, a student may perform a maximum of three (3) minimally and one (1) moderately invasive tasks on a single animal within a 24-hour period.
7. Tasks denoted with no dagger symbols do not involve live animal use.
8. Students are expected to use their (and their mentor's) professional judgment when selecting patients on whom to demonstrate required hands-on skills. The chosen patient must be clinically appropriate for the skill being performed. For example, a patient experiencing respiratory distress or other significant medical compromise should not be used for routine, non-urgent skills (e.g. external parasite check, toenail trim). At all times, patient welfare and ethical decision-making should guide the choice of case.
9. Students may use their own pets to complete clinical skills, however, personal pets should not be used solely for the purpose of fulfilling a task; ideally, the pet should have a legitimate medical need. When considering the use of a personal pet, students must follow all animal-use guidelines and ensure that the animal's welfare, safety, and best medical interest remain the highest priority.

For example, a student might perform the following tasks on an animal in a single day-

- Restrain a dog in sternal recumbency†
- Restrain a dog in lateral recumbency†
- Restrain a dog for cephalic venipuncture†
- Restrain a dog for saphenous venipuncture†
- Restrain a dog for jugular venipuncture†
- Administer subcutaneous injection††
- Administer intramuscular injection††
- Intravenous cephalic injection – canine††

The maximum allowable use of an animal applies **per patient**, not per student or per task. If multiple students share the same patient, the total number of permitted tasks does **not** increase; rather, it must be divided among the students to remain within the established limits for that patient.

In addition, animals must be provided with adequate rest between invasive procedures. A minimum **24-hour rest period** is required before a patient may undergo another invasive skill performance. This ensures the animal's comfort, safety, and overall, well-being. Non-invasive tasks should be scheduled thoughtfully to avoid undue stress and must always prioritize the patient's welfare.

Ensuring the welfare and safety of animals during handling and restraint is paramount. Proper techniques must be employed to minimize stress and prevent injury. This involves understanding the normal behavior of the animal, using humane methods, and applying the least amount of restraint necessary to achieve the desired outcome. Training in these techniques is essential for all personnel involved in animal care. The use of physical, mechanical, or pharmaceutical restraints should be carefully considered and monitored to ensure they are appropriate and effective.

The student is expected to utilize Fear Free® techniques for animal handling and restraint, as well as ensure that all patients are handled and restrained appropriately when they perform skills.

All students and mentors are expected to track and adhere to these guidelines. By adhering to these guidelines, we can promote the health and well-being of animals while ensuring an ethical, responsible, and humane use of animals in a safe environment for both patients and veterinary personnel.

***Failure to comply with the Animal Use Guidelines may result in consequences ranging from loss of points or repeating the task, up to failure of the course and / or separation from the program.***

## Selecting the Clinical Mentorship Site – Facility Requirements

You must visit the Clinical Mentorship Site and determine if the following supplies and equipment are readily available to you for use during your Clinical Mentorship. The mentorship supervisor will verify the availability of required items by completing the Mentorship and Facility Requirement Agreement.

The veterinary care facility must be equipped with the following equipment:

- VTDL-provided sign informing clients that students may be involved in patient care (it should be displayed in an area that is visible to clients).
- 300MA / 125KVP x-ray machine (high-output machine for analog or digital radiography)
- X-ray machine technique chart and facility written standard operating procedures (SOP) for machine usage, and proof of current state certification for both units (Small animal machine and dental)
- Lead Thyroid shields (2)
- 0.5mm lead aprons (2)
- 0.5mm lead gloves that provide 360-degree full coverage of hands (2 pairs)
- Facility provided individual personal radiation exposure monitoring device (dosimetry badge) for all who participate in radiographs (student and each staff member)
- Radiographic positioning aids (trough, sandbags, etc.)
- Right and left **lead** identification markers
- Patient identification labeling system for radiographic images that includes ALL the following information **prior to exposure**:
  - Patient first name
  - Patient last name
  - Facility name
  - Date image acquired
- Portable dental radiography machine
- Dental radiography film and chairside developer, or digital unit sensor (DR or CR)

All supplies, medications, and equipment used for **actual patient care or diagnostic workups** must be **in date (not expired)** to ensure safety, accuracy, and adherence to professional standards. Items that are **expired may only be used for teaching, demonstration, or practice purposes**. Students and mentors are responsible for verifying expiration dates prior to use in any clinical setting.

## Introduction to Essential Tasks and Criteria

Before starting each task-

1. Read the Goal, Description, Criteria, and Materials to be Submitted for Evaluation and Verification. Understand what is expected for each task.
2. Make sure that all equipment and supplies needed to complete the task are available. Pay particular attention to the details of what needs to be documented and submitted.
3. Make sure to obtain appropriate permissions where necessary. Please inform the facility's owner/manager of activities. A good relationship with the veterinarian in charge is key to having a positive Clinical Mentorship experience.

After performing each task-

1. Label all items submitted so that the materials submitted for evaluation and validation at Purdue are identified as the student's submission. No edited versions of the Task Verification Form (TVF) will be accepted. All submission must be original and unaltered.
2. Label all videos posted to Brightspace with the task number.
3. Submit materials by the deadlines listed in the course syllabus

## Introduction to Special Projects

Certain mentorships will have required projects to complete in addition to the required tasks. Written projects should be typed and checked for correct grammar and spelling. Photos should be embedded into the related written documents.

Before starting each project-

1. Read through the project in its entirety. This will give you a description of the project and what is needed to complete it successfully.
2. Determine what materials, if any, need to be submitted for completion of the project.
3. Most projects will come with a list of questions/points that need to be addressed and included in the written document.
4. If video is required for a project, it should be noted on the videotape verbally that this is for the project and not another required task. Some projects may require verbal narration of a student doing something. Each individual project will define if that is a necessary requirement for that project.

# 1. VIDEO VERIFICATION OF REQUIRED EQUIPMENT AND SUPPLIES

**Goal:** Ensure that the student will have access to all equipment and supplies necessary to complete the skills in this course.

**Description:** The student will provide a live narrated video showing equipment and supplies specific to this mentorship, to verify that required items are available to them and adequate for completion of tasks in their facility.

**Criteria:**

- The student **donned in PPE** showed their face clearly introduced themselves stated the date and task number. **(CRITICAL)**
- The student showed their supervising mentor and had them introduce themselves. The mentor was physically present and actively supervising the student for the **entire task**. **(CRITICAL)**
- VTDL-provided sign informing clients that students may be involved in patient care (it should be displayed in an area that is visible to clients). **(CRITICAL)**
- The student walked through the Imaging room and showed the following clearly: **(CRITICAL)**
  - 300MA / 125KVP x-ray machine (high-output machine for analog or digital radiography)
  - Current state certification showing machine maintenance and inspection (show date)
  - Technique chart for x-ray machine
  - Facilities machine usage standard operating procedures (SOP) demonstrated and narrated
  - Thyroid shields (2)
  - 0.5mm lead aprons (2)
  - 0.5mm lead gloves that provide 360-degree full coverage of hands (2 pairs)
  - Right and left **lead** identification markers
  - Individual personal radiation exposure monitoring devices for the student and all who assist with x-rays (dosimetry badge)
  - Demonstrate the patient identification labeling system for digital images that includes ALL the following information **prior to exposure**:
    - Patient first name
    - Patient last name
    - Facility name
    - Date image acquired
  - Submit one properly labeled radiograph as a JPEG
  - Portable dental radiography machine
  - Dental radiography film and chairside developer, or digital unit sensor (DR or CR)
- The student provided live narration throughout the task in one continuous, unedited horizontal plane video.

# 1. VIDEO VERIFICATION OF REQUIRED EQUIPMENT AND SUPPLIES (CONTINUED)

**Number of Times Task Needs to be Successfully Performed:** 1

**Materials Submitted for Evaluation and Verification:**

1. Task Verification Form for Video Verification of Required Equipment and Supplies, signed by the Clinical Mentorship supervisor who was physically and actively supervising the student for the full task.
2. One video showing the student as they introduced themselves, and the mentor and then walked through the imaging room, showing the above listed items clearly. The student narrated the video live as they showed items.
3. A radiographic image showing the full patient label. (JPG or PDF) labeled as **task1Rad**

**Student Name:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Supervisor Name:** \_\_\_\_\_ RVT, CVT, LVT, LVMT, DVM, VMD,

BVS/BVSc, other: \_\_\_\_\_

I verify that the student will have access to the items shown for tasks in this course.

**Signature of Clinical Mentorship Supervisor:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## 2. CANINE ABDOMINAL IMAGING AND POSITIONING

**Goal:** To produce a complete diagnostic quality abdominal radiographic series (Le Lat or Rt Lat, VD) on a *Canine* patient

**Description:** The student will position the patient in the required recumbencies and produce a complete abdominal series, of diagnostic quality, while adhering to proper radiation safety regulations. *Hands-free techniques and alternative restraint positioning should be utilized whenever possible to aid in lowering staff radiation dose.*

**Note:** *The student must practice this task at least once on another canine patient with the mentor before filming and submitting the task video. A complete abdominal series includes either the patient's left (Le) or right (Rt) lateral view and a ventrodorsal (VD) view.*

**The student may NOT crop the image post-exposure or use computer-editing software. To decrease scatter radiation, appropriate collimation must be utilized at the time of exposure.**

### Criteria:

- The student clearly showed their face, introduced themselves, explained the task, and stated the current date. **(CRITICAL)**
- The student showed the supervising mentor, who introduced themselves and will remain physically present and actively supervising the student for the *entire task*. **(CRITICAL)**
- *The student and all assisting donned full Radiation Safety PPE or utilized alternative restraint methods and left the room.* **(CRITICAL)**
- The student positioned the animal in Rt or Le lateral recumbency, and then in dorsal recumbency for the VD view. **(CRITICAL)**
- The student appropriately demonstrated collimation of the primary beam to include only the landmarks for abdominal radiographs as defined in the course materials creating diagnostic quality image series **(CRITICAL)**
- The student utilized a proper lead identification marker (L or R).
  - ***Post-exposure digital markers are not accepted***
- The student made the radiograph at peak expiration
- The student produced a diagnostic quality radiographic series **(CRITICAL)**
- The student recorded the full process (positioning through production) of the radiograph with a recorded post-production radiographic diagnostic quality (CALIPER) series self-evaluation (can be a separate video) that includes the following criteria: **(CRITICAL)**
  - Collimation
  - Artifacts
  - Landmarks
  - Identification
  - Positioning errors
  - Exposure techniques (radiographic contrast)
  - Radiographic presentation

## 2. CANINE ABDOMINAL IMAGING AND POSITIONING (CONTINUED)

**Number of Times Task Needs to be Successfully Performed:** 2

**Materials Submitted for Evaluation and Verification:**

1. Task Verification Form (**TVF**) signed by the clinical mentorship supervisor who was physically and actively supervising the student for the full task (**start to finish**).
2. Submit **one unedited live video** that clearly shows the student correctly positioning the patient for the **entire radiographic series** (lateral and VD). The video must demonstrate proper anatomical landmarks and include the image acquisition, showing the revealed radiographs that are of diagnostic quality for the complete series.
3. A post-production live narrated CALIPER diagnostic quality image series self-evaluation, as defined by the criteria outlined above for this task.
4. Radiographic images *for the final patient series* (JPG or PDF) labeled as **task2Rad and the view**; Example: task2RadLat or task2RadVD

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Supervisor Name:** \_\_\_\_\_ RVT, CVT, LVT, LVMT, DVM, VMD, BVS/BVSc,  
**other:** \_\_\_\_\_

**Practice Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_ Canine

**Final Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_ Canine

I verify that the student performed these tasks under my active and continuous supervision.

**Signature of Clinical Mentorship Supervisor:** \_\_\_\_\_

**Date:** \_\_\_\_\_

### 3. CANINE THORACIC IMAGING AND POSITIONING

**Goal:** To produce a complete diagnostic quality thoracic radiographic series (Le Lat or Rt Lat, VD) on a *Canine* patient

**Description:** The student will position the patient in the required recumbencies and produce a complete thoracic series, of diagnostic quality, while adhering to proper radiation safety regulations. *Hands-free techniques and alternative restraint positioning should be utilized whenever possible to aid in lowering staff radiation dose.*

**Note:** *The student must practice this task at least once on another canine patient with the mentor before filming and submitting the task video. A complete thoracic series includes either the patient's left (Le) or right (Rt) lateral view and a ventrodorsal (VD) view.*

**The student may NOT crop the image post-exposure or use computer-editing software. To decrease scatter radiation, appropriate collimation must be utilized at the time of exposure.**

**Criteria:**

- The student clearly showed their face, introduced themselves, explained the task, and stated the current date. **(CRITICAL)**
- The student showed the supervising mentor, who introduced themselves and will remain physically present and actively supervising the student for the ***entire task***. **(CRITICAL)**
- *The student and all assisting donned full Radiation Safety PPE or utilized alternative restraint methods and left the room.* **(CRITICAL)**
- The student positioned the animal in Rt or Le lateral recumbency, and then in dorsal recumbency for the VD view. **(CRITICAL)**
- The student appropriately demonstrated collimation of the primary beam to include only the landmarks for thoracic radiographs as defined in the course materials creating diagnostic quality image series **(CRITICAL)**
- The student utilized a proper lead identification marker (L or R).
  - ***Post-exposure digital markers are not accepted***
- The student made the radiograph at peak inspiration
- The student produced a diagnostic quality radiographic series **(CRITICAL)**
- The student recorded the full process (positioning through production) of the radiograph with a recorded post-production radiographic diagnostic quality (CALIPER) series self-evaluation (can be a separate video) that includes the following criteria: **(CRITICAL)**
  - Collimation
  - Artifacts
  - Landmarks
  - Identification
  - Positioning errors
  - Exposure techniques (radiographic contrast)
  - Radiographic presentation

### 3. CANINE THORACIC IMAGING AND POSITIONING (CONTINUED)

**Number of Times Task Needs to be Successfully Performed:** 2

**Materials Submitted for Evaluation and Verification:**

1. Task Verification Form (**TVF**) signed by the clinical mentorship supervisor who was physically and actively supervising the student for the full task (**start to finish**).
2. Submit **one unedited live video** that clearly shows the student correctly positioning the patient for the **entire radiographic series** (lateral and VD). The video must demonstrate proper anatomical landmarks and include the image acquisition, showing the revealed radiographs that are of diagnostic quality for the complete series.
3. A post-production live narrated CALIPER diagnostic quality image series self-evaluation, as defined by the criteria outlined above for this task.
4. Radiographic images *for the final patient series* (JPG or PDF) labeled as **task3Rad and the view**; Example: task3RadLat or task3RadVD

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Supervisor Name:** \_\_\_\_\_ **RVT, CVT, LVT, LVMT, DVM, VMD, BVS/BVSc,**  
**other:** \_\_\_\_\_

**Practice Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Canine**

**Final Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_ **Canine**

I verify that the student performed these tasks under my active and continuous supervision.

**Signature of Clinical Mentorship Supervisor:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## 4. FELINE ABDOMINAL OR THORACIC IMAGING AND POSITIONING

**Goal:** To produce a complete diagnostic quality abdominal or thoracic radiographic series (Le Lat or Rt Lat, VD) on a *feline* patient

**Description:** The student will position the patient in the required recumbencies and produce a complete thoracic series, of diagnostic quality, while adhering to proper radiation safety regulations. *Hands-free techniques and alternative restraint positioning should be utilized whenever possible to aid in lowering staff radiation dose.*

**Note:** *The student must practice this task at least once on another feline patient with the mentor before filming and submitting the task video. A complete series includes either the patient's left (Le) or right (Rt) lateral view and a ventrodorsal (VD) view.*

**The student may NOT crop the image post-exposure or use computer-editing software. To decrease scatter radiation, appropriate collimation must be utilized at the time of exposure.**

### Criteria:

- The student clearly showed their face, introduced themselves, explained the task, and stated the current date. **(CRITICAL)**
- The student showed the supervising mentor, who introduced themselves and will remain physically present and actively supervising the student for the ***entire task***. **(CRITICAL)**
- *The student and all assisting donned full Radiation Safety PPE or utilized alternative restraint methods and left the room.* **(CRITICAL)**
- The student positioned the animal in Rt or Le lateral recumbency, and then in dorsal recumbency for the VD view. **(CRITICAL)**
- The student appropriately demonstrated collimation of the primary beam to include only the landmarks for the series as defined in the course materials creating diagnostic quality image series **(CRITICAL)**
- The student utilized a proper lead identification marker (L or R).
  - ***Post-exposure digital markers are not accepted***
- The student made the radiograph at peak expiration/inspiration for the chosen series
- The student produced a diagnostic quality radiographic series **(CRITICAL)**
- The student recorded the full process (positioning through production) of the radiograph with a recorded post-production radiographic diagnostic quality (CALIPER) series self-evaluation (can be a separate video) that includes the following criteria: **(CRITICAL)**
  - Collimation
  - Artifacts
  - Landmarks
  - Identification
  - Positioning errors
  - Exposure techniques (radiographic contrast)
  - Radiographic presentation

## 4. FELINE ABDOMINAL OR THORACIC IMAGING AND POSITIONING (CONTINUED)

**Number of Times Task Needs to be Successfully Performed:** 2

**Materials Submitted for Evaluation and Verification:**

1. Task Verification Form (**TVF**) signed by the clinical mentorship supervisor who was physically and actively supervising the student for the full task (**start to finish**).
2. Submit **one unedited live video** that clearly shows the student correctly positioning the patient for the **entire radiographic series** (lateral and VD). The video must demonstrate proper anatomical landmarks and include the image acquisition, showing the revealed radiographs that are of diagnostic quality for the complete series.
3. A post-production live narrated CALIPER diagnostic quality image series self-evaluation, as defined by the criteria outlined above for this task.
4. Radiographic images *for the final patient series* (JPG or PDF) labeled as **task4Rad and the view**; Example: task4RadLat

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Supervisor Name:** \_\_\_\_\_ RVT, CVT, LVT, LVMT, DVM, VMD, BVS/BVSc,  
**other:** \_\_\_\_\_

**Practice Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_ Feline

**Final Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_ Feline

I verify that the student performed these tasks under my active and continuous supervision.

**Signature of Clinical Mentorship Supervisor:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## 5. RADIUS/ULNA SERIES (ML and CrCd views)

**Goal:** To proficiently produce a diagnostic quality mediolateral and craniocaudal radiographic projections of the radius/ulna on a sedated feline or canine patient.

**Description:** The student will position the animal in the required recumbency to produce a diagnostic quality radius/ulna (R/U) series while adhering to proper radiation safety regulations. *Hands-free techniques and alternative restraint positioning should be utilized whenever possible to aid in lowering staff radiation dose.*

**Note:** *The student must practice this task at least once on another feline or canine patient with the mentor before filming and submitting the task video.*

**The student may NOT crop the image post-exposure or use computer-editing software. To decrease scatter radiation, appropriate collimation must be utilized at the time of exposure.**

### Criteria:

- The student clearly showed their face, introduced themselves, explained the task, and stated the current date. **(CRITICAL)**
- The student showed the supervising mentor, who introduced themselves and will remain physically present and actively supervising the student for the **entire task. (CRITICAL)**
- *The student and all assisting donned full Radiation Safety PPE or utilized alternative restraint methods and left the room. (CRITICAL)*
- The student demonstrated mAs and kVp selection and produced the radiograph with a proper diagnostic radiographic exposure technique.
- The student appropriately demonstrated positioning and collimation of the primary beam to include only the landmarks for the area of interest (AOI) series as defined in the course materials creating a diagnostic quality image series **(CRITICAL)**
- The student selected and utilized a proper lead identification marker (L or R) according to which limb was being imaged and placed the marker in the correct location.
  - **Post-exposure digital markers are not accepted**
- The student produced a diagnostic quality radiographic series by collimating to the landmarks for just the AOI **(CRITICAL)**
- The student recorded the full process (**positioning through production**) of the radiograph with a recorded post-production radiographic diagnostic quality (CALIPER) image series self-evaluation (can be a separate video) that includes the following criteria: **(CRITICAL)**
  - Collimation
  - Artifacts
  - Landmarks
  - Identification
  - Positioning Critique
  - Exposure techniques (radiographic contrast)
  - Radiographic presentation

## 5. RADIUS/ULNA SERIES (ML and CrCd views) (CONTINUED)

**Number of Times Task Needs to be Successfully Performed:** 2

**Materials Submitted for Evaluation and Verification:**

- Task Verification Form (TVF) signed by the clinical mentorship supervisor who was physically and actively supervising the student for the full task **(start to finish) for both the practice and final patients.**
- Submit **one unedited horizontal live narrated video** that clearly shows the student correctly positioning the patient for the **requested AOI series**. The video must demonstrate proper anatomical landmarks and include collimation, **image acquisition**, showing the **revealed radiograph** that is of **diagnostic quality**.
- A post-production live narrated CALIPER diagnostic quality image series self-evaluation video, as defined by the criteria outlined above for this task.
- Radiographic images *for the final patient series* (JPG or PDF) labeled as **task5Rad and the view**; Example: task2RadML or task2RadCrCd

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Supervisor Name:** \_\_\_\_\_ RVT, CVT, LVT, LVMT, DVM, VMD,

BVS/BVSc, other: \_\_\_\_\_

**Practice Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

feline/canine

**Final Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

feline/canine

I verify that the student performed these tasks under my active and continuous supervision.

**Signature of Clinical Mentorship Supervisor:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## 6. SCAPULOHUMERAL JOINT SERIES (ML and CdCr views)

**Goal:** To proficiently produce a diagnostic quality Mediolateral and Caudocranial radiographic series projection of the scapulohumeral joint on a sedated feline or canine patient.

**Description:** The student will position the animal in the required recumbency to produce a diagnostic quality shoulder joint series while adhering to proper radiation safety regulations. *Hands-free techniques and alternative restraint positioning should be utilized whenever possible to aid in lowering staff radiation dose.*

**Note:** *The student must practice this task at least once on another feline or canine patient with the mentor before filming and submitting the task video.*

**The student may NOT crop the image post-exposure or use computer-editing software. Appropriate collimation must be done when producing the image to decrease scatter radiation.**

### Criteria:

- The student clearly showed their face, introduced themselves, explained the task, and stated the current date. **(CRITICAL)**
- The student showed the supervising mentor, who introduced themselves and will remain physically present and actively supervising the student for the **entire task. (CRITICAL)**
- *The student and all assisting donned full Radiation Safety PPE or utilized alternative restraint methods and left the room. (CRITICAL)*
- The student demonstrated mAs and kVp selection and produced the radiograph with a proper diagnostic radiographic exposure technique.
- The student appropriately demonstrated positioning and collimation of the primary beam to include only the landmarks for the area of interest (AOI) series as defined in the course materials creating a diagnostic quality image series **(CRITICAL)**
- The student selected and utilized a proper lead identification marker (L or R) according to which limb was being imaged and placed the marker in the correct location.
  - **Post-exposure digital markers are not accepted**
- The student produced a diagnostic quality radiographic series by collimating to the landmarks for just the AOI **(CRITICAL)**
- The student recorded the full process (**positioning through production**) of the radiograph with a recorded post-production radiographic diagnostic quality (CALIPER) image series self-evaluation (can be a separate video) that includes the following criteria: **(CRITICAL)**
  - Collimation
  - Artifacts
  - Landmarks
  - Identification
  - Positioning Critique
  - Exposure techniques (radiographic contrast)
  - Radiographic presentation

## 6. SCAPULOHUMERAL JOINT SERIES (ML and CdCr views) (CONTINUED)

**Number of Times Task Needs to be Successfully Performed:** 2

**Materials Submitted for Evaluation and Verification:**

- Task Verification Form (TVF) signed by the clinical mentorship supervisor who was physically and actively supervising the student for the full task **(start to finish) for both the practice and final patients.**
- Submit **one unedited horizontal live narrated video** that clearly shows the student correctly positioning the patient for the **requested AOI series**. The video must demonstrate proper anatomical landmarks and include collimation, **image acquisition**, showing the **revealed radiograph** that is of **diagnostic quality**.
- A post-production live narrated CALIPER diagnostic quality image series self-evaluation video, as defined by the criteria outlined above for this task.
- Radiographic images *for the final patient series* (JPG or PDF) labeled as **task6 and the view**; Example task2RadVD

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Supervisor Name:** \_\_\_\_\_ RVT, CVT, LVT, LVMT, DVM, VMD,

BVS/BVSc, other: \_\_\_\_\_

**Practice Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
feline/canine

**Final Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
feline/canine

I verify that the student performed these tasks under my active and continuous supervision.

**Signature of Clinical Mentorship Supervisor:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## 7. FEMOROTIBIAL JOINT SERIES (ML and CdCr views)

**Goal:** To proficiently produce a diagnostic quality mediolateral and caudocranial radiographic projection series of the stifle joint on a sedated feline or canine patient.

**Description:** The student will position the animal in the required recumbency to produce diagnostic quality stifle joint series while adhering to proper radiation safety regulations. *Hands-free techniques and alternative restraint positioning should be utilized whenever possible to aid in lowering staff radiation dose.*

**Note:** *The student must practice this task at least once on another feline or canine patient with the mentor before filming and submitting the task video.*

**The student may NOT crop the image post-exposure or use computer-editing software. Appropriate collimation must be done when producing the image to decrease scatter radiation.**

### Criteria:

- The student clearly showed their face, introduced themselves, explained the task, and stated the current date. **(CRITICAL)**
- The student showed the supervising mentor, who introduced themselves and will remain physically present and actively supervising the student for the **entire task. (CRITICAL)**
- *The student and all assisting donned full Radiation Safety PPE or utilized alternative restraint methods and left the room. (CRITICAL)*
- The student demonstrated mAs and kVp selection and produced the radiograph with a proper diagnostic radiographic exposure technique.
- The student appropriately demonstrated positioning and collimation of the primary beam to include only the landmarks for the area of interest (AOI) series as defined in the course materials creating a diagnostic quality image series **(CRITICAL)**
- The student selected and utilized a proper lead identification marker (L or R) according to which limb was being imaged and placed the marker in the correct location.
  - **Post-exposure digital markers are not accepted**
- The student produced a diagnostic quality radiographic series by collimating to the landmarks for just the AOI **(CRITICAL)**
- The student recorded the full process (**positioning through production**) of the radiograph with a recorded post-production radiographic diagnostic quality (CALIPER) image series self-evaluation (can be a separate video) that includes the following criteria: **(CRITICAL)**
  - Collimation
  - Artifacts
  - Landmarks
  - Identification
  - Positioning Critique
  - Exposure techniques (radiographic contrast)
  - Radiographic presentation

## 7. FEMOROTIBIAL JOINT SERIES (ML and CdCr views) (CONTINUED)

**Number of Times Task Needs to be Successfully Performed:** 2

**Materials Submitted for Evaluation and Verification:**

- Task Verification Form (TVF) signed by the clinical mentorship supervisor who was physically and actively supervising the student for the full task **(start to finish) for both the practice and final patients.**
- Submit **one unedited horizontal live video** that clearly shows the student correctly positioning the patient for the **requested AOI series**. The video must demonstrate proper anatomical landmarks and include collimation, **image acquisition**, showing the **revealed radiograph** that is of **diagnostic quality**.
- A post-production live narrated CALIPER diagnostic quality image series self-evaluation video, as defined by the criteria outlined above for this task.
- Radiographic images *for the final patient series* (JPG or PDF) labeled as **task7Rad and the view**; Example: task7RadML or task7RadCdCr

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Supervisor Name:** \_\_\_\_\_ RVT, CVT, LVT, LVMT, DVM, VMD,

other: \_\_\_\_\_

**Practice Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

feline/canine

**Final Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

feline/canine

I verify that the student performed these tasks under my active and continuous supervision.

**Signature of Clinical Mentorship Supervisor:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## 8. PELVIS SERIES (Lat and OFA views)

**Goal:** To proficiently produce diagnostic quality radiographic projections of the pelvis on a sedated canine patient.

**Description:** The student will position the animal in the required recumbency to produce diagnostic quality pelvic series on a canine patient while adhering to proper radiation safety regulations. *Hands-free techniques and alternative restraint positioning should be utilized whenever possible to aid in lowering staff radiation dose.*

**Note:** *The student must practice this task at least once on another canine patient with the mentor before filming and submitting the task video.*

**The student may NOT crop the image post-exposure or use computer-editing software. Appropriate collimation must be done when producing the image to decrease scatter radiation.**

### Criteria:

- The student clearly showed their face, introduced themselves, explained the task, and stated the current date. **(CRITICAL)**
- The student showed the supervising mentor, who introduced themselves and will remain physically present and actively supervising the student for the **entire task. (CRITICAL)**
- *The student and all assisting donned full Radiation Safety PPE or utilized alternative restraint methods and left the room. (CRITICAL)*
- The student demonstrated mAs and kVp selection and produced the radiograph with a proper diagnostic radiographic exposure technique.
- The student appropriately demonstrated positioning and collimation of the primary beam to include only the landmarks for the area of interest (AOI) series as defined in the course materials creating a diagnostic quality image series **(CRITICAL)**
- The student selected and utilized a proper lead identification marker (L or R) according to which limb was being imaged and placed the marker in the correct location.
  - **Post-exposure digital markers are not accepted**
- The student produced a diagnostic quality radiographic series by collimating to the landmarks for just the AOI **(CRITICAL)**
- The student recorded the full process (**positioning through production**) of the radiograph with a recorded post-production radiographic diagnostic quality (CALIPER) image series self-evaluation (can be a separate video) that includes the following criteria: **(CRITICAL)**
  - Collimation
  - Artifacts
  - Landmarks
  - Identification
  - Positioning Critique
  - Exposure techniques (radiographic contrast)
  - Radiographic presentation

## 8. PELVIS SERIES (Lat and OFA views) (CONTINUED)

**Number of Times Task Needs to be Successfully Performed:** 2

**Materials Submitted for Evaluation and Verification:**

- Task Verification Form (TVF) signed by the clinical mentorship supervisor who was physically and actively supervising the student for the full task **(start to finish) practice and final**.
- Submit **one unedited horizontal live video** that clearly shows the student correctly positioning the patient for the **requested AOI series**. The video must demonstrate proper anatomical landmarks and include collimation, **image acquisition**, showing the **revealed radiograph** that is of **diagnostic quality**.
- A post-production verbally narrated CALIPER diagnostic quality image series self-evaluation video, as defined by the criteria outlined above for this task.
- Radiographic images *for the series- final patient series* (JPG or PDF) labeled as **task8Rad and the patient's first name**; Example task5RadFlash

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Supervisor Name:** \_\_\_\_\_ RVT, CVT, LVT, LVMT, DVM, VMD,  
other: \_\_\_\_\_

**Practice Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
feline/canine

**Final Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
feline/canine

I verify that the student performed these tasks under my active and continuous supervision.

**Signature of Clinical Mentorship Supervisor:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## 9. INTRAORAL FULL MOUTH DENTAL RADIOGRAPHS

**Goal:** To proficiently produce diagnostic quality full mouth intraoral dental radiographic projections of an intubated (anesthetized live or cadaver) canine or feline patient.

**Description:** The student will position the animal in the required recumbency to produce a diagnostic quality intraoral full mouth radiographic series on an intubated canine or feline patient while adhering to proper radiation safety regulations.

**Note:** *The student must practice this task at least once on another canine or feline patient with the mentor before filming and submitting the task video.*

**The student may NOT crop the image post-exposure or use computer-editing software. Appropriate collimation must be done when producing the image to decrease scatter radiation.**

**Criteria:**

- *The student and all assisting donned full Radiation Safety PPE or utilized approved alternative restraint methods and remained 8 feet from the tube-head during exposure. (CRITICAL)*
- *The student demonstrated mAs and kVp selection for each tooth or AOI and utilized proper exposure techniques to obtain diagnostic quality intraoral radiographs. (CRITICAL)*
- *The student appropriately positioned the patient, sensor, and primary beam to include the tooth/teeth of interest as defined in course materials, producing full mouth diagnostic quality image series. (CRITICAL)*
- *The student correctly applied the bisecting angle and/or parallel techniques as appropriate for the specific tooth or AOI, and obtained images that included all required dental anatomy, including the complete crown and root structures, surrounding alveolar bone, and relevant periapical tissues. (CRITICAL)*
- *The student obtained a complete, diagnostically acceptable full-mouth dental (101-103, 104, 105-108, 109-110, 201-203, 204, 205-208, 209-210, 301-304, 305-308, 309-311, 401-404, 405-408, 409-411) radiographic series for patient standards. (CRITICAL)*

## 9. INTRAORAL FULL MOUTH DENTAL RADIOGRAPHS (CONTINUED)

- Task Verification Form (TVF) signed by the clinical mentorship supervisor who was physically and actively supervising the student for the full task **(start to finish) practice and final**.
- Submit **one unedited horizontal live video** that clearly shows the student correctly positioning an intubated patient for the **requested full mouth Intraoral radiographs**. The video must demonstrate proper anatomical landmarks and include collimation, **image acquisition**, showing the **revealed radiograph** that is of **diagnostic quality**.
- Full mouth radiographic images *for the final patient series compiled in one document (on a word or PDF document)* labeled as **task10Rads and the patient's first name**; Example task10RadsFlash

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Supervisor Name:** \_\_\_\_\_ RVT, CVT, LVT, LVMT, DVM, VMD,  
other: \_\_\_\_\_

**Practice Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
feline/canine

**Final Patient Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_  
feline/canine

I verify that the student performed these tasks under my active and continuous supervision.

**Signature of Clinical Mentorship Supervisor:** \_\_\_\_\_

**Date:** \_\_\_\_\_

## 10. RADIOLOGY LOG

**Goal:** To record accurate information for patient radiographs in a radiology-specific log (practice, rejected, and accepted patients)

**Description:** The student kept a log of **all** the patients that were utilized for this mentorship to ensure that they are following the state regulations of radiographic logs.

**Criteria:**

- The student created a radiographic log (chart) that includes the following information from all patients utilized for this mentorship (practice, rejected, and accepted patients):
  - Task number
  - Date image taken
  - Patient first and last name
  - Species
  - Anatomical region of interest (AOI)
  - Caliper measurement (if applicable) or weight
  - kVp
  - mAs
  - The x-ray machine manufacturer and model (and the digital system make and model if different than the machine)

**Number of Times Task Needs to be Successfully Performed:** 1 Electronic Log

**Materials Submitted for Evaluation and Verification:**

1. Task Verification Form signed by the clinical mentorship supervisor.
2. Electronic radiology log for all patients utilized for radiographic series in this course (PDF or Word document)

**Student Name:** \_\_\_\_\_ **Date:** \_\_\_\_\_

**Supervisor Name:** \_\_\_\_\_ **RVT, CVT, LVT, LVMT, DVM,**  
**VMD, BVS/BVSc, other:** \_\_\_\_\_

I verify that the student performed these tasks under my active and continuous supervision.

**Signature of Clinical Mentorship Supervisor:** \_\_\_\_\_

**Date:** \_\_\_\_\_