

# ANAESTHESIA/SURGERY WETLAB

## CAF009

- Lecture:** Veterinarian
- Practical:** Lead Technician or Veterinarian
- Session Dates:** As needed
- Session Length:** 3 hours (approximately)
- Who should attend:** All undergraduate, graduate students, and researchers performing survival surgery on animals.
- Prerequisite:** General Orientation (CAF01)  
Animal Handling (CAF02)  
Gaseous Anaesthesia/Injectable Anaesthesia  
Survival Surgery
- General Outline:** A sterile (non-recovery) surgery will be performed by all students including choice of injectable anaesthetics, dosage calculation, animal preparation and surgery.
- Handouts:** TBA
- Equipment Required:** Anaesthetic Machine A and/or B  
Rats (1 per person)  
Instruments organized by the Lead Technician in the surgery
- Rooms Required:** Operating Suite
- Min./Max. # of People:** 3 to 10  
*Over 5 people, add a trainer to practical.*

# ANIMAL HANDLING

## CAF 002

- Lecture:** Veterinarian (10:00 – 11:00 a.m.)
- Practical:** Lead Technician or Veterinarian (11-12:30)
- Session Dates:** Twice per month as scheduled
- Session Length:** 2-1/2 hours
- Who Should Attend:** Research staff who are handling animals
- Prerequisite:** General Orientation (CAF01)
- General Outline:** This course is an introduction into the handling, medical and experimental principles of work with laboratory animals used for research at the CAF including:
- 1) A slide presentation by the Veterinarian covering:
    - a) the administrative, operational and regulatory function and structure of the CAF;
    - b) basics on the lab animal diseases and necessity of the effort to prevent them, and the importance of these measures for the investigative experiments;
    - c) levels of protection of housed animals against infection and why it is important to adhere to SOPs on entering, proper containment procedures in the animal rooms, and exiting Level A Barrier Unit and Level B Modified Barrier;
    - d) bleeding of experimental animals; principles of calculating the bleeding volume and health implications; requirement for skill of each individual investigator; and requirement for individual training;
    - e) introduction to anaesthesia, surgery, analgesia and post-operative considerations;
    - f) environmental enrichment;
    - g) investigation of unexpected fatalities or morbid cases requiring euthanasia, necropsy;
    - h) endpoints.
  - 2) A wet lab conducted by the Lead Technician and the Veterinarian (if necessary) (1 hour):
    - a) handling of the animals;
    - b) simple SQ and IP injections
    - c) any specialized requirements

**Handouts:** Selected Standard Operating Procedures (SOPs)  
Animal Handling and Special Techniques handout by Dr. K. Delaney  
Guide to the Care and Use of Experimental Animals by the Canadian Council of Animal Care  
Documentation of Training

**Equipment Required:** Slide projector  
Carousel with slides  
Caged mice, rats, rabbits, etc., depending on the requirement  
Needles, syringes, disinfecting wipes and other supplies

**Rooms Required:** Training Centre

**Min/Max # of People:** 3 to 10  
*Over 5 people, add another trainer for practical portion.  
If another species besides rodent (ie: rabbit), add another trainer.*

# BARRIER ORIENTATION

## CAF013

- Lecture:** Lead Technician
- Practical:** Lead Technician
- Session Dates:** As required
- Session Length:** 1 hour
- Who should attend:** All Users of the Barrier Unit
- Prerequisite:** General Orientation (CAF01)  
Animal Handling (CAF02)  
*Each person must read the Level A SOP and fill out the Cardkey Access Form prior to having the course.*
- General Outline:** This session gives an overview to the users of the facility in the following areas:
- 1) The "Barrier Concept".
  - 2) Murine Diseases.
  - 3) Entrance/Exit procedures.
  - 4) Location of equipment - cages, bottles and food.
  - 5) Use of equipment - BSC, CO<sub>2</sub> Machine, location of SOPs.
  - 6) Services the CAF can provide.
  - 7) Routine animal care.
  - 8) Emergency/Fire procedures, location of telephones and emergency numbers.
  - 9) Consequences of not adhering to Standard Operating Procedures (SOP's).
- Handouts:** Card Key Access Form  
Level A SOPs  
Documentation of Training
- Equipment:** Biological Safety Cabinet  
Gown  
Bonnet  
Gloves  
Mask  
Booties  
Ethanol
- Rooms Required:** Barrier Unit Lounge
- Min/Max # of People:** 1 to 3

# BIOBUBBLE UNIT ORIENTATION

## CAF025

<b>Lecture:</b>	Lead Technician
<b>Practical:</b>	Lead Technician
<b>Session Dates:</b>	As required
<b>Session Length:</b>	1 hour
<b>Who Should Attend:</b>	All Users of the BioBubble Unit
<b>Prerequisite:</b>	General Orientation (CAF01) Animal Handling (CAF02) Barrier Orientation (Level A) or Level B Biohazard Training (if necessary) Biosafety Training (Safety Office - if necessary) <i>Each participant must read the BioBubble SOPs and fill out the Cardkey Access Form prior to having the course.</i>
<b>General Outline:</b>	This session gives an overview to the users of the BioBubble Unit in the following areas: 1) Guiding policies and SOPs for use of the BioBubble Unit. 2) Consequences of not adhering to Standard Operating Procedures (SOP's).
<b>Handouts:</b>	Cardkey Access Form BioBubble Standard Operating Procedures Documentation of Training
<b>Equipment:</b>	Gown Bonnet Gloves Mask Booties
<b>Rooms Required:</b>	BioBubble Unit
<b>Min/Max # of People:</b>	1 to 4

# BIOHAZARD LEVEL III SPECIFIC TRAINING

## CAF024

- Lecture:** Veterinarian
- Practical:** Assistant Director, Safety Office
- Session Dates:** As required
- Session Length:** 2 hours
- Who Should Attend:** All animal users of the Biohazard Level III Unit  
*Please note: This session is endorsed by the Animal Research Ethics Board and the Biosafety Committee and attendance is mandatory for biohazard users.*
- Prerequisite:** General Orientation (CAF01)  
Animal Handling (CAF02)  
Biohazard Level III Training (from the Safety Office)  
Endpoint Training  
*Each participant must read the Biohazard Level III SOPs and succeed in acquiring access to the Unit through the McMaster Safety Office prior to taking this course.*
- General Outline:** This session gives specific training to the users of the facility in the Level III Biohazard Unit:
- 1) Rodent housing in the Biohazard Level III Unit.
  - 2) Guiding policies and SOPs for use of the Biohazard Level III Unit.
  - 3) Consequences of not adhering to Standard Operating Procedures (SOP's) Biohazard Level III Unit Access Request Forms.
  - 4)
  - 5) Function and Care of the Biobubble
  - 6) Waste Cages and Bedding
  - 7) Logging of Animals
  - 8) Use of the portable anaesthetic machine and decontamination
- Handouts:** Biohazard Level III Standard Operating Procedures for Animal Use  
Documentation of Training
- Equipment:** Overhead  
All equipment for entrance and usage of a Biohazard Level II room for demonstration.
- Rooms Required:** Training Centre  
Biohazard Level II Room for demonstration
- Min/Max # of People:** Lecture: No Limit  
Lab: 1 to 2

**\*\* No entry into the Biohazard Level III Unit will be approved until successful completion of the required courses and testing through the McMaster Safety Office.**

# BIOHAZARD LEVEL II TRAINING

## CAF 011

**Lecture:** Assistant Director

**Practical:** Lead Technician

**Session Dates:** Once per month

**Session Length:** 2 hours

**Who should attend:** All users of 1U59, 1U60, 1U79, 1U61, 1U14 and 1U49 in the main CAF.

*Note: This session is endorsed by the Animal Research Ethics Board (AREB) and the Biosafety Committee. Attendance is mandatory for biohazard users.*

**Prerequisite:** General Orientation (CAF01)  
Animal Handling (CAF02)  
Level B Training (CAF12)

Biosafety Course held by McMaster Safety Office (Ext. 24956, Rm. HSC-3N1C)

**General Outline:** This session gives an overview to the users of the Facility in the Biohazard areas:

- 1) Rodent housing in Biohazard II areas.
- 2) Standard Operating Procedures for Biohazard II areas.
- 3) The required orientation and training for all users of Biohazards.
- 4) Biohazard Access Request Forms.
- 5) Procedures for entering and exiting the Biohazard Level II Rodent Unit.
- 6) The use of a Class II Biological safety cabinet (BSC), Level II.
- 7) Transporting biohazardous animals from the CAF to labs.
- 8) The use of procedure rooms (1U72-1U75).
- 9) Use of portable anaesthetic machines.

**Handouts:** Documentation of Training form  
Course Booklet  
Biohazard Quiz for completion within one week.

**Equipment:** Computer for Powerpoint Presentation  
All equipment for entrance and usage of Biohazard room

**Rooms Required:** Training Centre for Introduction and Conclusion  
Biohazard Room 1U60

**Min/Max # of People:** 1 to 10  
*Over 5 people, add another trainer for practical.*  
*Over 8 people, book a larger room outside the facility (the group can meet here in the Training Centre).*

**Lecture Instructors**  
**for Introduction and Conclusion:** Director and Assistant Director

**Practical Instructors:** Lead Technicians

# BLOOD COLLECTION

## CAF 010

<b>Lecture:</b>	Lead Technician
<b>Practical:</b>	Lead Technician
<b>Session Dates:</b>	Twice per month
<b>Session Length:</b>	1 hour
<b>Who Should Attend:</b>	All undergraduate, graduate students and researchers performing blood collection on animals.
<b>Prerequisite:</b>	General Orientation (CAF01) Animal Handling (CAF02) Gaseous Anaesthesia (CAF03) Or Injectable Anaesthesia (CAF004)  Anaesthesia Requirements:
<b>General Outline:</b>	Blood sampling of laboratory animals is a common practice but becomes complicated when there are repeated blood samples required. Successful vascular sampling techniques require considerable technical skill especially if using small rodents.
<b>Handouts:</b>	Documentation of Training  Handout is a Compilation of Selected Standard Operating Procedures (SOP=s) for Blood Collection: Blood Sampling Guideline (AREB105.gdl) Blood Specimen Collection and Fluid Replacement (CAF752.sop) Non-Invasive Jugular Blood Collection in the Mouse (CAF465.sop) Saphenous Vein Blood Sampling of Mice (CAF476.sop) Non-Invasive Jugular Blood Collection n the Rat (CAF464.sop) Blood Sample From the Tail Artery of Rats (CAF451.sop) Blood Sample from the Ear Artery in Rabbits (CAF575.sop)
<b>Equipment Required:</b>	Anaesthetic Machine A or B, Caged mice, rats, rabbits, etc., depending on the requirement, Disinfecting wipes, Needles, syringes.
<b>Rooms Required:</b>	Training Centre
<b>Min/Max # of People:</b>	1 to 4 (must be same technique)
<b>Instructor(s):</b>	Lead Technicians/Senior Technicians If any other animals are required besides mice/rats, please notify the instructor.

# ENDPOINT TRAINING

## CAF 017

<b>Lecture:</b>	Veterinarian
<b>Practical:</b>	None
<b>Session Dates:</b>	Once per month
<b>Session Length:</b>	2 hours
<b>Who Should Attend:</b>	All undergraduate, graduate students and researchers using animals.
<b>Prerequisite:</b>	General Orientation (CAF01) Animal Handling (CAF02)
<b>General Outline:</b>	<p>This course is a regulatory overview and an in depth look at CCAC guideline, “<i>Choosing an appropriate endpoint in experiments using animals for research teaching and testing.</i>”</p> <p>Lecture by Veterinarian covering:</p> <ol style="list-style-type: none"><li>1) OMAFRA - Animals for Research Act, Veterinary inspections, pain clause</li><li>2) CCAC - overview of guidelines, introduction of new guidelines, adequate veterinary care document</li><li>3) CCAC endpoint guidelines: endpoint guideline, review guideline, define endpoints, case scenarios, body condition scoring</li><li>4) AREB Endpoint Analysis Form (EAF): review EAF, have students fill out an EAF, review EAF done in class with all students</li></ol>
<b>Handouts:</b>	Selected SOPs: tumor endpoints, body condition scoring Synopsis of endpoint guidelines CCAC and OMAFRA handout Blank Endpoint Analysis Form
<b>Equipment Required:</b>	Overhead
<b>Rooms Required:</b>	Training Centre
<b>Min/Max # of People:</b>	3 to 10 <i>Over 8 people, book a larger room outside the facility (the group can meet here in the Training Centre).</i>

# GENERAL ORIENTATION

## CAF 001

- Lecture:** Technical Manager/Assistant Director
- Practical:** None
- Session Dates:** Twice per month as scheduled
- Session Length:** Part I - Regulations, 1.5 hours  
Part II - Safety, Security and Animal Care, 2 hours
- Who Should Attend:** All users of the CAF and satellites.  
*Please note: This session is endorsed by the Animal Research Ethics Board, and attendance is mandatory.*
- Prerequisite(s):** None (*must have this in order to get an access card to CAF*)
- General Outline:** This session gives an overview to the users of the facility in the following areas:
- 1) Staffing of animal facilities; on call and emergency services.
  - 2) Size and scope of the main facility and its satellites.
  - 3) Legislation, regulations, i.e., Animals for Research Act, Canadian Council on Animal Care, Animal Research Ethics Board, animal care staff, CCAC Video.
  - 4) Discussion of use of Animal Use Protocols, amendments and updates.
  - 5) Confidentiality and Security.
  - 6) Alternatives to animal use.
  - 7) Services the CAF offers.
  - 8) Safety/Health monitoring
  - 9) General information on animal care and husbandry, transport, animal identification, health problems, treatments and mortalities.
  - 10) Standard Operating Procedures (SOPs)
  - 11) Training programs offered and evaluation of individual needs
- Handouts:** Documentation of Training  
Canadian Council on Animal Care  
Animals for Research Act  
Various Levels of Housing of Rodents  
Setting and Applying Welfare Endpoints  
List of Standard Operating Procedures
- Equipment Required:** Data Projector
- Room(s) Required:** Training Centre
- Min/Max # of People:** 3 to 10  
*If over 10 people, book a larger room outside the facility (the group can meet here in the Training Centre), and also book a technician for the tour portion of the training.*

## CAF LEVEL B (BIOEXCLUSION UNIT) ORIENTATION CAF 012

<b>Lecture:</b>	Lead Technician
<b>Practical:</b>	Lead Technician
<b>Session Dates:</b>	Once per month
<b>Session Length:</b>	1 hour
<b>Who Should Attend:</b>	All Users of the Level B Facility
<b>Prerequisite:</b>	General Orientation (CAF01) Animal Handling (CAF02)
<b>General Outline:</b>	This session gives an overview to the users of the facility in the following areas:  <ol style="list-style-type: none"><li>1) Guiding Principles and Standard Operating Procedures (SOPs) for use of the Level B Unit within the CAF.</li><li>2) The Five Levels of Rodent Housing.</li><li>3) Definition of Level B.</li><li>4) Basics of using Level B in the Biohazard Room [Level C(B)].</li><li>5) Consequences of not adhering to Standard Operating Procedures (SOP's).</li></ol>
<b>Handout for Course:</b>	Bioexclusion Unit (CAF Level B) Card Access/Documentation of Training Form Handout – Compilation of Level B Standard Operating Procedures
<b>Equipment:</b>	Biological Safety Cabinet Gown Bonnet Gloves Mask Booties Ethanol/Mikroquat
<b>Rooms Required:</b>	Training Centre Level B Room
<b>Min/Max # of People:</b>	1 to 10 <i>Over 5 people, add another trainer for tour.</i>
<b>Instructors:</b>	<b>Lead Technicians</b> <b>or</b> <b>Senior Health Technician</b>

# LARGE ANIMAL SURVIVAL SURGERY

## CAF008

<b>Lecture:</b>	Veterinarian
<b>Practical:</b>	Lead Technician or Veterinarian
<b>Session Dates:</b>	As required
<b>Session Length:</b>	6 hours (2 session 3 hours in length)
<b>Who should attend:</b>	All undergraduate, graduate students, and researchers performing survival surgery on rabbits, cats or dogs.
<b>Prerequisite:</b>	General Orientation (CAF01) Animal Handling (CAF02) Anaesthesia course pertaining to the animal species
<b>General Outline:</b>	<p>This course covers the survival surgical standards for species including the rabbit and larger species. Surgery on these larger species must follow guidelines of the College of Veterinarians of Ontario.</p> <ol style="list-style-type: none"><li>1) Review of College of Veterinarians of Ontario guidelines for large animal surgery.</li><li>2) Lectures covering preoperative, intraoperative and postoperative factors.</li><li>3) Drylab session covering instrumentation, sterilization techniques, patient preparation, surgeon preparation, sterile field establishment, monitoring equipment, post operative considerations, suturing.</li></ol>
<b>Handouts:</b>	CCAC Guidelines, CAF Survival Surgery Booklet Documentation of training Synopsis of College of Veterinarians of Ontario guidelines
<b>Equipment:</b>	Organized by the Lead Technician in the surgery
<b>Rooms Required:</b>	Operating Suite
<b>Min/Max # of People:</b>	1 to 4

# PIGLET HANDLING

## CAF026

**Lecture:** Veterinarian

**Practical:** Lead Technician or Veterinarian

**Session Dates:** As required

**Session Length:** Session 1: Lecture: 45 minutes  
Wetlab: 2 hours  
Session 2: Wetlab: 3 hours

**Who Should Attend:** All undergraduate, graduate students and researchers handling piglets.

**Prerequisite:** General Orientation (CAF01)

**Concurrent Requirement:** Anaesthesia

**General Outline:** This course is an introduction into the handling, medical and experimental principles of work with laboratory piglets used for research at the CAF including:

1) A slide presentation by the Veterinarian covering:

- a) Basic care and housing
- b) Treatments and emergencies
- c) Normal piglet statistics
- d) Cause of mortality
- e) Heat loss
- f) Colostrum and urine system
- g) Diet
- h) Stress
- i) Diarrhea and other medical problems
- j) Medications
- k) Emergency contacts
- l) When and how to call the Veterinarian

2) Wet labs conducted by the Lead Technician:

*Session 1*

- a) Handling of piglets
- b) Bathing
- a) Injections IM, SQ
- b) Caging and cleaning
- c) Protective clothing
- d) Heat lamps

*Session 2*

- a) Anaesthetic machines
- b) Injections IC, IV
- c) Intubating
- d) Gavaging

**Handouts:** Selected Standard Operating Procedures (SOPs)  
Piglet slide presentation  
Guide to the Care and Use of Experimental Animals by the Canadian Council of Animal Care  
Documentation of training

**Equipment Required:** Slide projector  
Carousel with slides  
Piglets in piglet room  
Needles, syringes, disinfecting wipes and other supplies

**Rooms Required:** Training Centre  
Piglet housing room  
Operating Suite

**Min/Max # of People:** 1 to 5

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# PSYCHOLOGY ORIENTATION - ANIMAL USER

## CAF022

- Lecture:** Assistant Director  
Technical Manager
- Practical:** None
- Session Dates:** As needed
- Session Length:** 1 hour
- Who Should Attend:** All users of Psychology satellite  
*Please note: This session is endorsed by the Animal Research Ethics Board and attendance is mandatory.*
- Prerequisite:** None (*must have this in order to get an access card to Psychology*)
- General Outline:** This session gives an overview to the users of the facility in the following areas:
- 1) Staffing of animal facilities; on call and emergency services.
  - 2) Size and scope of the main facility and its satellites.
  - 3) Legislation, regulations, ie: Animals for Research Act, Canadian Council on Animal Care, Animal Research Ethics Board, animal care staff, CCAC Video.
  - 3) Discussion of use of Animal Use Protocols, amendments and updates.
  - 4) Confidentiality and Security.
  - 5) Alternatives to animal use.
  - 6) Services the CAF offers.
  - 7) Safety/Health monitoring.
  - 8) General information on animal care and husbandry, transport, animal identification, health problems, treatments and mortalities.
  - 9) Standard Operating Procedures (SOPs).
  - 10) Training programs offered and evaluation of individual needs.
- Handouts:** Documentation of Training  
Canadian Council on Animal Care  
Animals for Research Act  
List of Psychology Standard Operating Procedures
- Equipment Required:** Overhead
- Room(s) Required:** Lecture room
- Min/Max # of People:** 2 to 12

# RABBIT GASEOUS ANAESTHESIA

## CAF 006

- Lecture:** Veterinarian
- Practical:** Lead Technician or Veterinarian
- Session Dates:** As required
- Session Length:** 3 hours
- Who Should Attend:** All undergraduate, graduate students, and researchers anaesthetizing rabbits.
- Prerequisite:** General Orientation (CAF01)  
Animal Handling (CAF02)
- General Outline:** *Lecture and Wetlab*
- 1) Pre-anaesthetic exam of rabbit
  - 2) Premedication
  - 3) Intravenous catheter placement
  - 4) Inhalent anaesthesia and intubation
  - 5) Injectable anaesthesia
  - 6) Barbiturates
  - 7) Monitoring anaesthesia, heat sources
  - 8) Recovery and post-operative care
- Handouts:** Rabbit Anaesthesia course outline with SOPs #581, 578, 767, 752, 766, 727, AREB103  
Documentation of Training
- Equipment Required:** Rabbit  
Disposables - organized by Lead Technician  
Scales  
Monitoring equipment
- Rooms Required:** Operating Suite
- Min/Max # of People:** 1 to 6  
*Over 4 people, add a trainer to practical.*

# RABBIT INJECTABLE ANAESTHESIA COURSE

## CAF 007

- Lecture:** Veterinarian
- Practical:** Lead Technician or Veterinarian
- Session Dates:** As required
- Session Length:** 3 hours
- Who Should Attend:** All undergraduate, graduate students and researchers anaesthetizing rabbits.
- Prerequisite:** General Orientation (CAF01)  
Animal Handling (CAF02)
- General Outline:** *Lecture and Wetlab*
- 1) Pre-anaesthetic exam of rabbit
  - 2) Premedication
  - 3) Intravenous catheter placement
  - 4) Inhalent anaesthesia and intubation
  - 5) Injectable anaesthesia
  - 6) Barbiturates
  - 7) Monitoring anaesthesia, heat sources
  - 8) Recovery and post-operative care
- Handouts:** Rabbit Anaesthesia course outline with SOPs #581, 578, 767, 752, 766, 727, AREB103  
Documentation of Training
- Equipment Required:** Rabbit  
Disposables - organized by Lead Technician  
Scales  
Monitoring equipment
- Rooms Required:** Operating Suite
- Min/Max # of People:** 1 to 6  
*Over 4 people, add a trainer to practical.*

# REGULATORY UPDATE

## CAF 018

- Lecture:** University Veterinarian
- Session Dates:** As Required
- Session Length:** 2 hours
- Who Should Attend:** All Principal Investigators and Research Staff who have not had any formal training as required by the CCAC. *Note: This session is endorsed by the Animal Research Ethics Board.*
- Prerequisite:** Animal user who has not taken other formal training related to the use of animals in research, teaching and testing at McMaster.
- General Outline:** The purpose of this course is to provide an update on all animal care and use regulatory matters to ensure that Principal Investigators and others using animals are give the opportunity to keep up-to-date on animals care and use and regulatory changes.
- The presentation will include the following:
- a) A description of the basis for giving a regulatory update by referencing the CCAC Guideline on Education and Training core curriculum.
  - a) An overview and comments on the following specific guidelines:
    1. Guideline for the Care and Use of Laboratory Animals,
    2. Guideline for Animal Care Use Protocol Review, this will be supplemented by comments on the policy, terms of reference for Animal Care Committees and policy on peer review for scientific merit,
    3. Guideline on Transgenic Animal Use,
    4. Guideline on Setting an Endpoint,
  - c) This will be supplemented further by discussion on the animal rights movement locally/nationally/internationally, and the impact that it should have on the thinking of animal users in the university environment.
  - c) An overview of OMAFRA'S Animals for Research Act, with specific reference to the pain clause.
  - c) An overview of the CCAC, it's origin, funding source and it's responsibilities.
- Handouts:** None; CCAC Guide if requested
- Equipment Required:** Overhead Projector
- Rooms Required:** Training Centre
- Min/Max # of People:** No limit

# RODENT GASEOUS ANAESTHESIA

## CAF 003

<b>Lecture:</b>	Video
<b>Practical:</b>	Lead Technician or Veterinarian
<b>Session Dates:</b>	Once per month as scheduled
<b>Session Length:</b>	3 hours
<b>Who Should Attend:</b>	All undergraduate, graduate students, and researchers who anaesthetize animals.
<b>Prerequisite:</b>	General Orientation (CAF01) Animal Handling (CAF02)
<b>General Outline:</b>	1) Lectures covering injectable anaesthetics, analgesics, monitoring, premedications, heat sources, emergency procedures. 2) Wetlab using gaseous anaesthesia on live animals.
<b>Handouts:</b>	SOP #CAF304, 457, 458, 459, 461, 470, 581, 726, 727, 760, 767, 751 Documentation of Training Rodent Gaseous Anaesthesia Quiz
<b>Equipment Required:</b>	Anaesthetic Machine A and /or B Rats (1 per 2 people) Mice Disposables - organized by Lead Technician
<b>Rooms Required:</b>	TC/OR
<b>Min/Max # of People:</b>	3 to 8
<b>Instructors:</b>	Lead Technician, Veterinarian or Senior Health Technician

# SECURITY ORIENTATION

## CAF 020

<b>Lecture:</b>	Administrative Manager
<b>Practical:</b>	None
<b>Session Dates:</b>	As required
<b>Session Length:</b>	2 hours
<b>Who Should Attend:</b>	All security personnel including dispatchers at all sites
<b>Prerequisite:</b>	None
<b>General Outline:</b>	What is biomedical research: 1) Legislation 2) CCAC 3) Facility organization 4) AREB 5) Health monitoring and disease 6) Facility overview 7) Training 8) Security 9) Crisis Management Program 10) Tour
<b>Handouts:</b>	Card key form Document of training CCAC ethics paper CCAC pamphlet OMAF handout Table of Contents of Crisis Management Program Maps of appropriate sites
<b>Equipment Required:</b>	Digital Projector/Computer
<b>Rooms Required:</b>	Training Centre
<b>Min/Max # of People:</b>	1 to 10 <i>Over 8 people, book a larger room outside the facility (the group can meet here in the Training Centre).</i>
<b>Instructor:</b>	Administrative Manager

# TRANSGENICS

## CAF016

- Lecture:** Veterinarian
- Practical:** None
- Session Dates:** As required
- Session Length:** 2 hours
- Who Should Attend:** All undergraduate, graduate students and researchers using transgenic animals.
- Prerequisite:** General Orientation (CAF01)  
Animal Handling (CAF02)
- General Outline:** Discussion of the following topics:
- 1) Animals for Research Act
  - 2) Canadian Council on Animal Care - new guidelines on transgenics
  - 3) Animal Research Ethics Board, AUP, special forms relating to transgenics
  - 4) History of transgenic animal use
  - 5) Types of derivations/importance of background strain
  - 6) Transgenic resources - websites, references
  - 7) Ordering
  - 8) Management
    - a) Reporting - phenotypic abnormalities
    - b) Record keeping - ear tags, micro chips, cage cards, identification
    - c) Housing and space requirements
    - d) Crowding
    - e) Breeding
    - f) Special care
    - g) Genotyping - tail snips, blood, skin biopsies
  - 9) Animal care staff involvement for endpoints, immunocompromised, phenotypic abnormalities
  - 10) Health - body condition scoring
  - 11) Escapees
  - 12) Pathology - common pathology seen in transgenics/pathology submission
  - 13) Communication
  - 14) Endpoints
- Handouts:** To be determined
- Equipment Required:** Overhead
- Rooms Required:** Training Centre
- Min/Max # of People:** 3 to 10

# PSYCHOLOGY ORIENTATION - NON-ANIMAL USER

## CAF023

- Lecture:** Administrative Manager
- Practical:** None
- Session Dates:** As needed
- Session Length:** Half hour
- Who Should Attend:** All users of Psychology satellite  
*Please note: This session is endorsed by the Animal Research Ethics Board and attendance is mandatory.*
- Prerequisite:** None (*must have this in order to get an access card to Psychology*)
- General Outline:** This session gives an overview to the users of the facility in the following areas:
- 1) Staffing of animal facilities; on call and emergency services.
  - 2) Size and scope of the main facility and its satellites.
  - 3) Legislation, regulations, i.e., Animals for Research Act, Canadian Council on Animal Care, Animal Research Ethics Board, animal care staff, CCAC Video.
  - 4) Discussion of use of Animal Use Protocols, amendments and updates.
  - 5) Confidentiality and Security.
  - 6) Alternatives to animal use.
  - 7) Services the CAF offers.
  - 8) Safety/Health monitoring.
  - 9) General information on animal care and husbandry, transport, animal identification, health problems, treatments and mortalities.
  - 10) Standard Operating Procedures (SOPs).
  - 11) Training programs offered and evaluation of individual needs.
- Handouts:** Documentation of Training  
Canadian Council on Animal Care  
Animals for Research Act  
List of Psychology Standard Operating Procedures
- Equipment Required:** None.
- Room(s) Required:** Lecture Room
- Min/Max # of People:** 2 to 12

# GENERAL ORIENTATION - NON-ANIMAL USERS

## CAF021

- Lecture:** Administrative Manager
- Session Dates:** As Required
- Session Length:** Half-hour
- Who Should Attend:** All non-animal users of the main CAF and satellites who require access.  
*Please note: This session is endorsed by the Animal Research Ethics Board and attendance is mandatory.*
- Prerequisite:** None (*must have this in order to get an access card to CAF*)
- General Outline:** This session gives an overview to the users of the facility in the following areas:
- 1) Staffing of animal facilities; on call and emergency services.
  - 2) Size and scope of the main facility and its satellites.
  - 3) Legislation, regulations, i.e., Animals for Research Act, Canadian Council on Animal Care, Animal Research Ethics Board, animal care staff.
  - 4) Discussion of use of Animal Use Protocols, amendments and updates.
  - 5) Confidentiality and Security.
  - 6) Safety/Health monitoring
  - 7) Training programs offered and evaluation of individual needs
- Handouts:** Documentation of Training  
Canadian Council on Animal Care  
Animals for Research Act
- Equipment Required:** Overhead
- Room(s) Required:** Training Centre
- Min/Max # of People:** 2 to 12  
*Over 12 people, book a larger room outside the facility (the group can meet here in the training centre).*