

AALAS Learning Library Course Catalog: January 2012

ALAT Training

- 1: The Field of Laboratory Animal Science*
- 2: The Animal Research Environment*
- 3: Facility Security and Emergencies
- 4: Occupational Health and Safety
- Unit 1 Review Exam (Lessons 1–4)
- 5: Facility Equipment
- 6: Caging Systems
- 7: The Laboratory Animal Environment
- 8: Housekeeping Tasks and Contamination Control
- 9: Feed and Nutrition
- 10: Husbandry
- Unit 2 Review Exam (Lessons 5–10)
- 11: Animal Procurement and Quarantine
- 12: Medications
- 13: Colony Health Surveillance
- 14: Euthanasia
- Unit 3 Review Exam (Lessons 11–14)
- 15: Introduction to Science and Metrics
- 16: Experimental Design and Methodology
- 17: Heredity and Breeding
- Unit 4 Review Exam (Lessons 15–17)
- 18: Mice
- 19: Rats
- 20: Hamsters
- 21: Gerbils
- 22: Guinea Pigs
- 23: Rabbits
- 24: Cats
- 25: Dogs
- 26: Swine
- 27: Ruminants
- 28: Nonhuman Primates
- 29: Birds
- 30: Amphibians
- 31: Fish
- 32: Less Common Research Animals
- Unit 5 Review Exam (Lessons 18–32)
- Final Review Exam (Lessons 1–32)

LAT Training

- 1: Public and Private Interests in Animal Research*
- 2: Administrative Responsibilities *
- 3: Laboratory Techniques
- 4: Genetics and Breeding
- 5: Anatomy and Physiology
- Review Exam (Lessons 1-5)**
- 6: Laboratory Animal Facility Equipment
- 7: The Laboratory Environment
- 8: Animal Health Maintenance
- 9: Health and Disease
- 10: Diagnostic Techniques
- Review Exam (Lessons 6-10)**
- 11: Aseptic Technique, Surgical Support and Anesthesia
- 12: Emergency Veterinary Care
- 13: Research Methodology
- 14: Calculations and Conversions
- Review Exam (Lessons 11-14)**
- Final Review Exam (Lessons 1-14)**

LATG Training

- 1: Personnel Management
- 2: Facility Management
- 3: Facility Security and Disaster Planning
- 4: Regulations
- 5: Health Surveillance and Quality Assurance
- 6: Occupational Health and Safety
- Unit 1 Review Exam (Lessons 1–6)**
- 7: Introduction to Organic Chemistry and Biochemistry
- 8: Molecular Biology

- 9: Immunology
- 10: Genetic Engineering
- 11: Gnotobiotics
- Unit 2 Review Exam (Lessons 7–11) **
- 12: Agents of Infectious Disease
- 13: Common Diseases of Laboratory Animals
- 14: Diagnostic Techniques
- 15: Pharmacology
- 16: Anesthesia and Analgesia
- Unit 3 Review Exam (Lessons 12–16)**
- 17: Experimental Design and Data Handling
- Final Review Exam (Lessons 1–17) **

AALAS Certification Preparation

- CMAR: Preparing for the Animal Resources Exam
Study Skills
Taking an AALAS Technician Certification Exam

Analgesia, Anesthesia, and Surgery

- Aseptic Technique for Rodent Survival Surgery
Inhalation Anesthesia Systems for Rodents
Pain Recognition and Alleviation in Laboratory Animals
Post-Procedure Care of Mice and Rats in Research:
Minimizing Pain and Distress
Small Ruminant Anesthesia and Intra-Operative Monitoring

Animal Biosafety Training Program

- Animal Biosafety Risk Assessment and Management
Concepts and Practices of Animal Biosafety:
ABSL-2 and ABSL-3
Institutional Responsibilities and Animal Biosafety
Introduction to the AALAS Animal Biosafety Training Program
Occupational Health and Animal Biosafety

Animal Health and Well Being

- Environmental Enrichment
Introduction to Laboratory Animal Medicine*
Laboratory Animal Nutrition

Bioethics

- Ethical Case 1: Mouse in a Parasitology Experiment
Ethical Case 2: Rat with Partial Paralysis
Ethical Decision-Making in Animal Research

Biomethodology: Amphibians

- Introduction to Amphibians
Working with Laboratory *Xenopus*

Biomethodology: Dogs

- Introduction to Dogs
Working with the Laboratory Dog (5 courses):
- The Basics
 - Endotracheal Intubation
 - Injections and Blood Collection
 - Urinary Catheterization
 - Venous Catheterization

Biomethodology: Ferrets

- Introduction to Ferrets
Working with the Laboratory Ferret

Biomethodology: Other Species

- Introduction to Cats
Introduction to Nonhuman Primates
Introduction to Rabbits
Introduction to Sheep and Goats
Introduction to Swine
Working with Laboratory Zebrafish
Working with Poultry in the Laboratory

Biomethodology: Rodents

- Genetically Engineered Mice (3 courses):
- Historical Perspectives
 - Evaluating the Phenotype
 - Transgenesis/ Conditional Control Systems
- Introduction to Gerbils
Introduction to Guinea Pigs
Introduction to Hamsters
Introduction to Mice
Introduction to Rats
Mouse Breeding Colony Management
Working with the Laboratory Mouse
Working with the Laboratory Rat

Biosecurity

- Introduction to VA Biosecurity Concepts
Laboratory Biosecurity

Conversions and Calculations

- Basic Metrics for the Laboratory Animal Facility
Dose Calculations: Basic
Fractions, Percentages, and Decimals

Compliance Courses

- Avoiding Financial Conflict of Interest in Federal Research
Common Compliance Issues
Essentials for IACUC Members
Maintaining Animal Procedure Areas
Post-Approval Monitoring
Refresher: Working with the IACUC
Semiannual Facility Inspection
Working with the IACUC: non-VA version
Working with the IACUC: VA version

Facilities, Supplies, and Materials

- Selection of Cage Cleaner Products—
Chemistry Driven
Syringes and Needles
Watering Systems

Management and Training

- Active Listening
Communicating with the Non-Native English Speaker
Delegation and Empowerment
Team Building
Time Management and Goal Setting
Workplace Training
Writing Multiple Choice Questions

Occupational Health and Safety

- Bloodborne Pathogens Training
Ergonomics for Animal Technicians
Health Risks and Safety Procedures for Working with Nonhuman Primates
Introduction to Ergonomics
Laboratory Animal Allergy

U.S. Mandates and Guidelines

- Animal Welfare Act Regulations
Biosafety in Microbiologic and Biomedical Laboratories (5th Edition)
Euthanasia of Research Animals: AVMA Guidelines
Good Laboratory Practice Regulations
Guide to the Care and Use of Laboratory Animals
Occupational Health and Safety in the Care and Use of Research Animals
PHS Policy on Humane Care and Use of Laboratory Animals
Working with Controlled Substances

*You can take this course free (in the Free Courses track), but you need an account to receive transcript documentation.

**These courses are designed to help individuals prepare for the certification exams; they do not provide CEUs.