Clinical Trials in Veterinary Science Training Course

Professional Development Training Course Outline

Category	Veterinary and Animal Science	**Duration**	10 Days
Base Fee	$3,000 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Clinical trials in veterinary science are at the forefront of advancing animal health, ensuring safety, efficacy, and innovation in veterinary therapeutics. Clinical Trials in Veterinary Science Training Course provides a robust framework for understanding preclinical and clinical research, regulatory compliance, ethical considerations, and cutting-edge methodologies in veterinary medicine. Participants will gain hands-on knowledge in designing, managing, and analyzing clinical trials for companion animals, livestock, and exotic species, equipping them with practical skills to enhance evidence-based veterinary practice. With a focus on translational research and innovative drug development, this program bridges the gap between laboratory discoveries and real-world veterinary applications.

Through a combination of theoretical insights and practical case studies, this course emphasizes the importance of Good Clinical Practice (GCP), statistical analysis, pharmacovigilance, and data integrity in veterinary trials. Attendees will learn to navigate complex regulatory frameworks, implement quality control measures, and adopt modern technologies such as electronic data capture (EDC) systems, AI-based analytics, and telemedicine in clinical trial monitoring. This training empowers veterinary professionals, researchers, and pharmaceutical specialists to drive scientific innovation while ensuring the highest standards of animal welfare and research ethics.

Programme Curriculum

Clinical Trials in Veterinary Science Training Course

Introduction

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Course Duration

10 days

Course Objectives

1. Understand the fundamentals of veterinary clinical trial design and methodology.
2. Apply Good Clinical Practice (GCP) standards in animal research.
3. Develop protocols for randomized controlled trials in veterinary medicine.
4. Evaluate safety and efficacy of veterinary therapeutics.
5. Implement ethical considerations and animal welfare compliance.
6. Conduct pharmacokinetic and pharmacodynamic studies in animals.
7. Utilize electronic data capture (EDC) and digital monitoring tools.
8. Perform statistical analysis and interpretation of veterinary trial data.
9. Navigate regulatory frameworks for veterinary drug approvals.
10. Apply risk-based monitoring and quality assurance techniques.
11. Design translational research studies linking lab findings to clinical practice.
12. Manage multi-site veterinary clinical trials efficiently.
13. Integrate AI, telemedicine, and precision veterinary technologies into trials.

Target Audience

1. Veterinary researchers and scientists
2. Veterinary clinicians and practitioners
3. Animal health pharmaceutical professionals
4. Clinical research associates (CRAs) in veterinary studies
5. Regulatory affairs specialists in animal therapeutics
6. Laboratory animal technicians and coordinators
7. Postgraduate students in veterinary medicine
8. Veterinary epidemiologists and biostatisticians

Course Modules

Module 1: Introduction to Veterinary Clinical Trials

- Overview of clinical research in veterinary medicine

- Phases of veterinary clinical trials
- Key stakeholders in animal trials
- Regulatory and ethical considerations
- **Case Study:** Trial design for canine osteoarthritis therapy

Module 2: Good Clinical Practice (GCP) in Veterinary Science

- Principles of GCP for veterinary trials
- Animal welfare compliance
- Documentation and audit readiness
- Informed consent in animal studies
- **Case Study:** GCP implementation in feline vaccine trials

Module 3: Trial Design and Protocol Development

- Randomized controlled trial design
- Blinding and placebo controls
- Sample size calculation
- Endpoint selection
- **Case Study:** Designing a multi-center equine drug trial

Module 4: Ethics and Animal Welfare

- Ethical frameworks and legislation
- Institutional Animal Care and Use Committee (IACUC) processes
- Minimizing animal suffering
- Reporting adverse events
- **Case Study:** Welfare assessment in laboratory rodent trials

Module 5: Pharmacokinetics and Pharmacodynamics

- ADME principles in animals
- Dose-response modeling
- Blood sampling and bioanalysis
- Drug metabolism considerations
- **Case Study:** PK/PD study of canine antibiotics

Module 6: Regulatory Affairs for Veterinary Drugs

- FDA, EMA, and national regulatory guidelines
- Submission of Investigational New Animal Drug (INAD) applications
- Labeling and post-market surveillance
- Compliance audits
- **Case Study:** Regulatory approval process for bovine vaccine

Module 7: Data Management and Electronic Systems

- Electronic Data Capture (EDC) systems
- Database design and validation
- Data integrity and audit trails
- Case report forms (CRFs)
- **Case Study:** Implementation of EDC in multi-site feline trial

Module 8: Statistical Analysis and Biostatistics

- Descriptive and inferential statistics
- Survival analysis and regression models
- Power analysis and sample size determination
- Interpretation of trial outcomes
- **Case Study:** Statistical evaluation of canine cancer therapy

Module 9: Risk-Based Monitoring

- Monitoring strategies in veterinary trials
- Site visits vs. remote monitoring
- Risk assessment tools
- Corrective and preventive actions (CAPA)
- **Case Study:** Risk-based monitoring in equine orthopedic trials

Module 10: Translational Research in Veterinary Medicine

- Linking laboratory studies to clinical outcomes
- Biomarker identification
- Preclinical to clinical trial transition
- Precision veterinary therapeutics
- **Case Study:** Translational approach in canine heart disease

Module 11: Multi-Site Trial Management

- Coordination of multi-center trials
- Standard Operating Procedures (SOPs)
- Communication and reporting structures
- Logistics of sample collection and transport
- **Case Study:** Multi-site trial for feline antiviral therapy

Module 12: Pharmacovigilance and Post-Market Surveillance

- Adverse event reporting
- Signal detection and analysis
- Risk management plans
- Regulatory reporting requirements
- **Case Study:** Post-market surveillance of equine vaccines

Module 13: Clinical Trial Documentation and Auditing

- Essential documents for audits
- Trial Master File (TMF) management
- Audit preparation and response
- Inspection readiness
- **Case Study:** Auditing practices in laboratory rodent study

Module 14: Emerging Technologies in Veterinary Trials

- AI and machine learning for data analysis
- Telemedicine for trial monitoring

- Wearable devices and sensors
- Digital endpoints
- **Case Study:** AI-assisted monitoring in canine activity studies

Module 15: Project Management and Leadership in Veterinary Trials

- Budgeting and resource allocation
- Team management and leadership
- Timeline and milestone tracking
- Stakeholder engagement
- **Case Study:** Leading a multi-disciplinary feline oncology trial

Training Methodology

This course employs a participatory and hands-on approach to ensure practical learning, including:

- Interactive lectures and presentations.
- Group discussions and brainstorming sessions.
- Hands-on exercises using real-world datasets.
- Role-playing and scenario-based simulations.
- Analysis of case studies to bridge theory and practice.
- Peer-to-peer learning and networking.
- Expert-led Q&A sessions.
- Continuous feedback and personalized guidance.

Register as a group from 3 participants for a Discount

Send us an email: info@fineskilltrainingcenter.org or call *+254769199797*

Certification

Upon successful completion of this training, participants will be issued with a globally- recognized certificate.

Tailor-Made Course

We also offer tailor-made courses based on your needs.

Key Notes

a. The participant must be conversant with English.

b. Upon completion of training the participant will be issued with an Authorized Training Certificate

c. Course duration is flexible and the contents can be modified to fit any number of days.

d. The course fee includes facilitation training materials, 2 coffee breaks, buffet lunch and A Certificate upon successful completion of Training.

e. One-year post-training support Consultation and Coaching provided after the course.

f. Payment should be done at least a week before commence of the training, to Fineskill Training Center account, as indicated in the invoice so as to enable us prepare better for you.

Upcoming Scheduled Sessions

Start Date	End Date	Location	Price
23 Nov 2026	04 Dec 2026	Online	$2,000
23 Nov 2026	04 Dec 2026	Physical	$3,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$6,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$9,000
23 Nov 2026	04 Dec 2026	Physical	$12,000
23 Nov 2026	04 Dec 2026	Physical	$12,000

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