Wildlife Forensic Science for Crime Investigation Training Course

Professional Development Training Course Outline

Category	Wildlife Management	**Duration**	5 Days
Base Fee	$1,500 USD	**Delivery Mode**	Online / On-site Hybrid

Course Introduction

Wildlife Forensic Science for Crime Investigation Training Course is designed to build specialized expertise in investigating crimes related to wildlife trafficking, poaching, and illegal trade. The course emphasizes modern forensic techniques, DNA analysis, species identification, and legal procedures that support wildlife crime prosecutions. With global wildlife crimes escalating, this program integrates the latest research, trending forensic methods, and practical applications to strengthen investigative capacity and ensure sustainable biodiversity protection.

Participants will gain critical insights into the role of forensic evidence in wildlife law enforcement, the challenges of species authentication, and the complexities of handling wildlife crime scenes. Through practical modules, expert-led discussions, and real-world case studies, this training enhances investigative competencies and sharpens the ability to connect scientific evidence with legal frameworks. Learners will leave with a strong foundation to combat wildlife crimes using innovative, science-driven approaches.

Programme Curriculum

Wildlife Forensic Science for Crime Investigation Training Course

Introduction

Wildlife Forensic Science for Crime Investigation Training Course is designed to build specialized expertise in investigating crimes related to wildlife trafficking, poaching, and illegal trade. The course emphasizes modern forensic techniques, DNA analysis, species identification, and legal procedures that support wildlife crime prosecutions. With global wildlife crimes escalating, this program integrates the latest research, trending forensic methods, and practical applications to strengthen investigative capacity and ensure sustainable biodiversity protection.

Participants will gain critical insights into the role of forensic evidence in wildlife law enforcement, the challenges of species authentication, and the complexities of handling wildlife crime scenes. Through practical modules, expert-led discussions, and real-world case studies, this training enhances investigative competencies and sharpens the ability to connect scientific evidence with legal frameworks. Learners will leave with a strong foundation to combat wildlife crimes using innovative, science-driven approaches.

Course Objectives

1. To introduce participants to the fundamentals of wildlife forensic science for criminal investigation.
2. To develop knowledge in DNA profiling, genetic markers, and wildlife evidence authentication.
3. To strengthen skills in wildlife crime scene investigation techniques.
4. To analyze wildlife trafficking networks through forensic intelligence tools.
5. To apply advanced forensic toxicology in wildlife-related investigations.
6. To train participants in digital forensics for illegal wildlife trade monitoring.
7. To enhance capacity in wildlife specimen handling and chain-of-custody documentation.
8. To explore global wildlife crime case studies with successful prosecution outcomes.
9. To integrate geospatial technologies for tracking and mapping wildlife crime patterns.
10. To evaluate legal frameworks and international wildlife crime conventions.
11. To advance skills in report writing and courtroom presentation of forensic evidence.
12. To equip learners with emerging technologies in AI-driven wildlife crime detection.
13. To promote cross-border collaboration in wildlife forensic crime investigations.

Organizational Benefits

1. Improved investigative capacity for combating wildlife crime.
2. Strengthened institutional reputation in biodiversity conservation.
3. Enhanced compliance with international wildlife conventions.
4. Increased efficiency in prosecuting wildlife-related crimes.
5. Improved staff competency in handling forensic evidence.
6. Better integration of forensic science into organizational policies.
7. Access to global wildlife forensic crime investigation practices.
8. Strengthened inter-agency cooperation for wildlife protection.
9. Enhanced staff retention through skill development.
10. Positive public image in promoting environmental sustainability.

Target Audiences

1. Wildlife law enforcement officers
2. Customs and border control agents
3. Environmental protection officers
4. Forensic laboratory analysts
5. Crime scene investigators
6. Conservation NGOs and activists
7. Legal practitioners in environmental law
8. University researchers and academic scholars

Course Duration: 5 days

Course Modules

Module 1: Introduction to Wildlife Forensic Science

- History and evolution of wildlife forensic investigations
- Importance of forensic science in wildlife crime control
- Overview of wildlife crime patterns and trends
- Fundamentals of forensic investigation processes
- Global challenges in wildlife forensic crime investigation
- Case Study: Forensic breakthroughs in elephant ivory trade cases

Module 2: Wildlife Crime Scene Investigation

- Evidence collection at wildlife crime scenes
- Preservation of biological and trace evidence
- Use of forensic tools in wildlife scene analysis
- Challenges in outdoor wildlife crime scene investigations
- Role of trained investigators in evidence integrity
- Case Study: Investigation of poaching incidents in national parks

Module 3: DNA Profiling and Species Identification

- Role of DNA in wildlife forensic science
- Genetic markers for species authentication
- DNA barcoding for endangered species
- Techniques for sample collection and preservation
- Challenges in wildlife DNA analysis
- Case Study: DNA evidence in illegal tiger skin trade prosecution

Module 4: Forensic Toxicology in Wildlife Crime

- Detecting toxins in wildlife specimens
- Analysis of poisoning in endangered species
- Laboratory testing for toxic agents
- Linking toxicological results to wildlife crime
- Application of toxicology in forensic reports
- Case Study: Toxicological analysis in raptor poisoning cases

Module 5: Digital Forensics and Illegal Wildlife Trade

- Tracking wildlife trade on the dark web
- Digital investigation tools for wildlife trafficking
- Role of cyber forensics in wildlife protection
- Monitoring online platforms for illegal wildlife sales
- Evidence presentation from digital forensics
- Case Study: Online wildlife trafficking investigation success

Module 6: Legal Frameworks and International Conventions

- Overview of CITES and global wildlife laws
- National wildlife protection laws and enforcement
- Legal admissibility of forensic evidence in court
- Cross-border cooperation in wildlife law enforcement
- Role of prosecutors in wildlife crime cases
- Case Study: Successful prosecution under CITES conventions

Module 7: Geospatial and Remote Sensing in Wildlife Forensics

- Use of GIS in tracking wildlife crime patterns
- Remote sensing for illegal logging and poaching detection
- Integrating geospatial data with forensic investigation
- Benefits of satellite imaging in wildlife crime mapping
- Predictive modeling for crime hotspot analysis
- Case Study: GIS-based investigation of rhino poaching in Africa

Module 8: Forensic Reporting and Courtroom Presentation

- Writing scientific forensic reports
- Standards for evidence presentation in court
- Effective communication of forensic findings
- Challenges in courtroom testimony for wildlife crimes
- Importance of expert witnesses in wildlife cases
- Case Study: Forensic evidence in pangolin trafficking trial

Training Methodology

- Interactive lectures with subject matter experts
- Practical demonstrations in forensic techniques
- Hands-on case study analysis of wildlife crime investigations
- Group discussions and scenario-based role plays
- Use of digital forensic investigation software
- Courtroom simulation for evidence presentation practice

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	27 Nov 2026	Online	$1,000
23 Nov 2026	27 Nov 2026	Physical	$1,500
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$3,000
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$4,500
23 Nov 2026	27 Nov 2026	Physical	$6,000
23 Nov 2026	27 Nov 2026	Physical	$6,000

Ready to enroll or request a customized program? Book online or contact us:

Register Online Now

Email: info@fineskilltrainingcenter.com | Website: www.fineskilltrainingcenter.com