

Lesson 9: Introduction to Ethical Hacking

Module 14: Ethical Hacking Principles

Topic: What is Ethical Hacking? **Duration:** 3 Hours **Objective:** Understand the role and importance of ethical hacking in cybersecurity, legal/ethical boundaries, and compliance.

Session Plan Breakdown

Phase 1: Introduction (30 mins)

Icebreaker (5 mins): - Prompt: "What comes to mind when you hear the word hacker?" - Engage 2-3 learners for quick responses.

Define Hacking and Types (10 mins): - White-hat: Ethical hackers - Black-hat: Malicious hackers - Gray-hat: In-between roles

Case Studies (15 mins): - Kevin Mitnick's story - Bug bounty programs (HackerOne, Google)

Phase 2: Legal & Regulatory Compliance (30 mins)

Discussion (5 mins): - Prompt: "What could go wrong if a pentest is done without permission?"

Laws and Regulations Overview (15 mins): | Region | Law/Regulation | |-----|-----| | Kenya | Computer Misuse Act | | USA | CFAA (Computer Fraud and Abuse Act) | | EU | GDPR | | Global | HIPAA, PCI-DSS |

Certifications & Conduct (10 mins): - CEH (EC-Council), CompTIA Security+ - Ethical code of conduct principles

Phase 3: Practical Session (1 hr 30 mins)

Activity 1: Legal vs Illegal Hacking Case Study (25 mins): - Group reading: Equifax data breach vs Bug bounty success - Discussion points: Authorization, motive, disclosure

Activity 2: Rules of Engagement Review (25 mins): - Provide simplified RoE templates - In teams, highlight allowed/not allowed actions

Lab Activity: Draft RoE + Compliance Checklist (40 mins): - Each group designs an RoE and checklist for a fictional pentest project - Optional: 1-2 groups present findings to the class

Phase 4: Conclusion (30 mins)

Recap (10 mins): - Quiz or open-floor Q&A: Ethical vs Unethical

Discussion (10 mins): - Why are ethical hackers needed in today's organizations?

Assignment Briefing (10 mins): - Homework: 1-page reflection - Prompt: "Why I want to learn ethical hacking and where I plan to use it."



Materials Provided

- Slide deck (PDF/PPT)
- Case study handouts (Equifax breach & Bug bounty)
- Simplified Rules of Engagement template
- Group worksheet for compliance checklist
- Homework assignment sheet

Let me know which materials you'd like exported next (e.g., slides, handouts, RoE templates) and preferred format (PDF, PPTX, DOCX, etc).