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 23 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: 12 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