

ETHICAL HACKING AND COUNTERMEASURES

CERTIFIED ETHICAL HACKER



Course Description

The Ethical Hacking and Countermeasures course is designed to provide you with an insight into the current security scenario and increasing hacking attempts on various information systems. The goal of ethical hacking and countermeasures is to help organizations take preemptive measures against malicious attacks by attacking their own system while staying within legal limits. Students will learn the fundamentals of ethical hacking, footprinting and reconnaissance, scanning, and enumeration concepts, as well as various hacking methodologies, security tools, and countermeasures that aim to defend organizations from cyberattacks.



Course Learning Outcomes

Upon successful completion of this course, you will be able to:

01

List ethical and legal requirements of security assessment and penetration testing and determine a strategy to comply with these requirements.

Compare and contrast different hacking techniques, assessments, and hacking tools.

02

03

Classify human-based, computer-based, and mobile-based vulnerabilities, threats, and attacks on information systems and recommend countermeasures.

Examine different phases of hacking and recommend ethical hacking strategies to secure various components of an information system.

04

05

Implement appropriate levels of information security controls based on evidence, information, and research.



Who is it for?

This course is suitable for:



Cybersecurity job roles mapped to IT, infosec or cybersecurity based auditors, administrators, consultants, analysts, architects and consultants.



Career changers who want to gain **AI driven skillset** in cybersecurity to transition into the field.



Working professionals who want to upskill or reskill in specific cybersecurity areas without committing to a full degree program.



Students exploring cybersecurity who want to test the waters before committing to a degree program.



Anyone with an interest in cybersecurity who wants to learn more about the field and develop relevant **AI skills**.

Course Highlights



DURATION
10 weeks



STUDY HOURS
Students need to put in about 13.5 hours a week



LIVE CLASSES
Once a week



FACULTY
Industry Experts

Why ECCU?



High Student Satisfaction (89.6%)

Our students are happy! We prioritize creating a positive learning experience that meets your needs and allows you to progress at your own pace.



Proven Employment Outcomes (100%)

Land your dream job! 100% of our graduate's report securing employment within a year of completing their courses. Our curriculum equips you with the knowledge and skills employers seek.



Achieve Your Goals (93.8%)

We support you at every step of the way. A staggering 93.8% of our students successfully achieve their goals upon course completion.



Stay Motivated (91.55%)

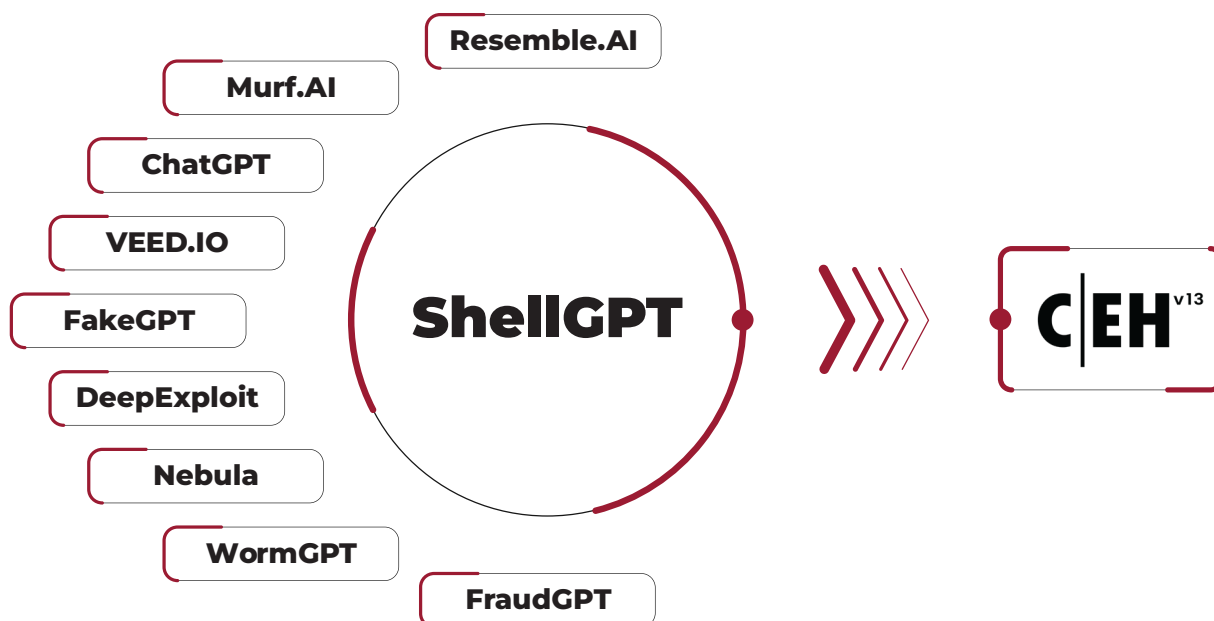
Stay engaged and reach your full potential! Our course fosters a high motivation index of 91.55% ensuring you stay committed to your studies and achieve success.



Master AI to Automate Ethical Hacking

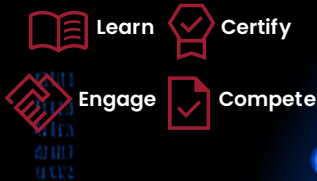


AI Tools beyond ChatGPT



Best of C|EH v13 at a Glance!

4 Phase Learning Framework:



Hacking AI Systems
(Based on OWASP Top 10 Vulnerabilities and Threats)

Hands on labs for practicing AI skills with AI Tools

4000+ Hacking & Security Tools

500+ Student Manual Pages

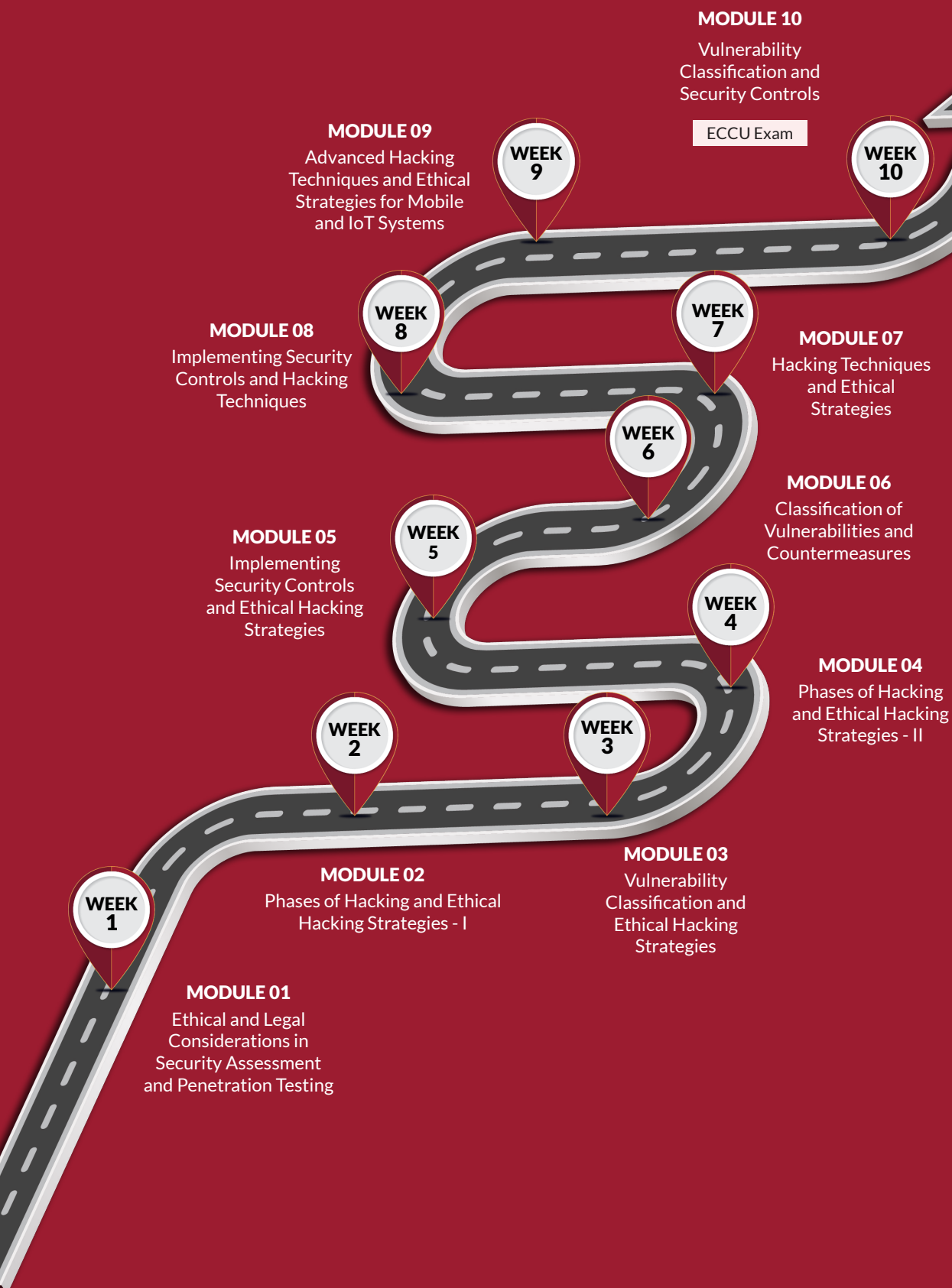
2000+ Lab Manual Pages

550 Attack Techniques
(31 New Techniques)

221 Labs



Course Outline



Attaining the C|EH Certification



Number of Questions
125



Test Format
Multiple-Choice



Duration
4 hours



Availability
**EC-Council
University Portal**

Holistic Education at ECCU



Acquire in-depth knowledge through ECCU's resources and platforms.



Master technical skills with hands-on expertise in ECCU's iLABS.



Enhance soft skills, such as communication and problem-solving.



Common Job Roles for C|EH

- Penetration Tester (Pen Tester)
- Ethical Hacker
- SOAR Engineer
- AI Security Engineer/ Analyst/ Consultant/ Architect
- Vulnerability Assessment Analyst
- Solution Architect
- Red Team Specialist
- SIEM Threat Responder
- Senior Cloud Security Analyst
- Data Protection & Privacy Officer
- IoT Security Engineer
- Security Operations Center (SOC) Analyst
- Machine Learning Security Specialist
- Endpoint Security Engineer
- AI/ ML Security Consultant
- Crypto Security Consultant
- And many more..

Unveil the True University Experience!



Real-time Updates



Assignments



Assessments



**Comprehensive
Resources**



**Student
Interaction**



Faculty Interaction



24x7 LMS Support



**Complete Updated
Courseware**



24x7 Online Library



Meet Our Faculty



Dr. David Moured, PhD



Yuri Diogenes, MS



Sandro Tuccinardi, JD



Pamela Garret, MBA



Brian McDaniel, MS



Julie Beck, MS



Chris Barnhart



Warren Mack, PhD

Meet Our Alumni



Master's of Science in Cybersecurity at EC-Council University fueled my career shift from IT general engineer to cloud security engineer, with two promotions along the way!

- Takahiro Oda
Master's of Science in Cybersecurity
Cloud infrastructure security engineer
at PayPay Corporation

I have not seen any scarcity in the cybersecurity and information security market. In fact, I went from a security analyst to a senior manager at one of India's leading general insurance companies after earning my degree from EC-Council University.

- Varad Gunjkar
Master's of Science in Cybersecurity
Senior Manager at ICICI Lombard



EC-COUNCIL
UNIVERSITY
ACCREDITED. FLEXIBLE. ONLINE.

EC-Council University 101 Sun Ave NE #C Albuquerque, NM 87109, United

✉ info@eccu.edu 🌐 www.eccu.edu