

**Ethical Hacking Essentials** is a first-of-its-kind MOOC certification that provides foundational knowledge and skills in ethical hacking with add-on labs for hands-on experience. The course contains 12 modules and add-on labs covering fundamental ethical hacking concepts, including emerging technologies like IoT and OT, cloud computing, etc.

### Modules: What You Will Learn

<b>01</b>	<b>Information Security Fundamentals</b>	<ul style="list-style-type: none"> <li>Information security fundamentals</li> <li>Information security laws and regulations</li> </ul>
<b>02</b>	<b>Ethical Hacking Fundamentals</b>	<ul style="list-style-type: none"> <li>Cyber Kill Chain methodology</li> <li>Hacking concepts, hacking cycle, and different hacker classes</li> <li>Ethical hacking concepts, scope, and limitations</li> </ul>
<b>03</b>	<b>Information Security Threats and Vulnerabilities</b>	<ul style="list-style-type: none"> <li>Detect various threat sources and vulnerabilities in a network or system</li> <li>Different types of malwares</li> </ul>
<b>04</b>	<b>Password Cracking Techniques and Countermeasures</b>	<ul style="list-style-type: none"> <li>Types of password cracking techniques</li> </ul>
<b>05</b>	<b>Social Engineering Techniques and Countermeasures</b>	<ul style="list-style-type: none"> <li>Social engineering concepts and techniques</li> <li>Insider threats and identity theft concepts</li> </ul>
<b>06</b>	<b>Network-Level Attacks and Countermeasures</b>	<ul style="list-style-type: none"> <li>Packet sniffing concepts and types</li> <li>Sniffing techniques and countermeasures</li> <li>DoS and DDoS attacks under sniffing attacks</li> </ul>
<b>07</b>	<b>Web Application Attacks and Countermeasures</b>	<ul style="list-style-type: none"> <li>Web Server Attacks</li> <li>Web Application Attacks</li> <li>Web Application Architecture and Vulnerability Stack</li> <li>Web Application Threats and Attacks</li> <li>SQL Injection Attacks</li> <li>Types of SQL Injection Attacks</li> </ul>



**08 Wireless Attacks and Countermeasures**

- Wireless Terminology
- Types of Wireless Encryption
- Wireless Network-specific Attack Techniques
- Bluetooth Attacks
- Wireless Attack Countermeasures

**09 Mobile Attacks and Countermeasures**

- Mobile Attack Anatomy
- Mobile Attack Vectors and Mobile Platform Vulnerabilities

**10 IoT and OT Attacks and Countermeasures**

- IoT Attacks
- IoT Devices, their need and Application Areas
  - IoT Threats and Attacks
- OT Attacks
- Understand OT Concepts
  - OT Challenges and Attacks
  - OT Attacks Countermeasures

**11 Cloud Computing Threats and Countermeasures**

- Cloud Computing Concepts
- Container Technology
- Cloud Computing Threats
- Cloud Computing Countermeasures

**12 Penetration Testing Fundamentals**

- Fundamentals of Penetration Testing and its Benefits
- Various Types and Phases of Penetration Testing
- Guidelines and Recommendations for Penetration Testing

**Tools You Will Learn and Use**

LOphtCrack, Netcraft, SQL Injection Detection Tool, Web Application Security Scanner, ARP Spoofing Detection Tools

- » e-Learning resources including eBook and videos are available to all learners, free of charge.
- » Unlock powerful add-ons, including cloud labs that provide intensive skills training and practice, official EC-Council certification exams, exam preps, and certification of completion.

**Exam Information**

**Certification** : Ethical Hacking Essentials

**Exam Length** : 2 Hours

**Exam Format** : MCQ

**No. of Questions:** 75

**Get Certified**