



Arrow ECS Finland Oy - Education Services

TRAINING OFFERING

You can reach us at:

Arrow ECS Finland Oy, Lars Sonckin kaari 16, 02600 Espoo, Finland

Email: education.ecs.fi@arrow.com

Phone: 0870 251 1000

CODE:	LENGTH:	PRICE:
ECC_CPENT	40 Hours (5 days)	€3,595.00

Description

Why Join the C|PENT Course?

- Gain mastery in a complete hands-on pen testing methodology.
- Master AI pen testing skills mapped to all pen testing phases.
- Validate and test your skills across five unique multi-disciplinary courses, facing challenges at every level of the attack spectrum.
- Expand technical expertise in advanced penetration testing tools, techniques, methodologies, and AI tools.
- Become proficient in skills beyond the essential pen testing skills.
- Prioritize often-overlooked and critical aspects—scoping engagements, understanding design, estimating effort, and presenting findings.
- Develop the mindset of well-rounded, versatile professionals and lead red teams with offensive security skills.
- Engage in a hybrid learning model that combines guided learning and self-learning.
- Practice in diverse scenarios that mimic real-world enterprise environments with IoT systems, segmented networks, and advanced defenses.
- Participate in a highly tactical program with offensive security training.
- Gain deep practice through CTF challenges, the largest library of 100+ labs, and live cyber ranges.
- Follow and learn a rigorous, systematic approach that emulates a hacker's movement through configured target domains.
- Learn how to infiltrate organizations, evaluate risks, and write an actionable report.
- Show your prowess in a 100% practical exam, validating both your technical and nontechnical skills.
- Validate your elite offensive security skills on a global scale.
- Become VAPT-ready to handle real-world challenges and compliance requirements

AI Skills, you learn from C|PENT Program:

AI empowers penetration testers by automating repetitive tasks, enhancing accuracy, and uncovering complex security flaws that traditional methods might overlook.

- Enhanced efficiency
- Improved accuracy
- Real-time threat detection
- Advanced vulnerability analysis
- Customization and scalability

Programme

Module 01: Introduction to Penetration Testing and Methodologies

- Learning Objectives
- Principles and Objectives of Penetration Testing
- Penetration Testing Methodologies and Frameworks
- Best Practices and Guidelines for Penetration Testing
- Role of Artificial Intelligence in Penetration Testing
- Role of Penetration Testing in Compliance with Laws, Acts, and Standards
- Module Summary

Module 02: Penetration Testing Scoping and Engagement

- Learning Objectives
- Penetration Testing: Pre-engagement Activities
- Key Elements Required to Respond to Penetration Testing RFPs
- Drafting Effective Rules of Engagement (ROE)
- Legal and Regulatory Considerations Critical to Penetration Testing

- Resources and Tools for Successful Penetration Testing
- Strategies to Effectively Manage Scope Creep
- Module Summary

Module 03: Open Source Intelligence (OSINT) and Attack Surface Mapping

- Learning Objectives
- Collecting Open-source Intelligence (OSINT) on Target's Domain Name
- Collecting OSINT about Target Organization on the Web
- Perform OSINT on Target's Employees
- Open Source Intelligence (OSINT) using Automation Tools
- Attack Surface Mapping
- Module Summary

Module 04: Social Engineering Penetration Testing

- Learning Objectives
- Social Engineering Penetration Testing Concepts
- Off-Site Social Engineering Penetration Testing
- On-Site Social Engineering Penetration Testing
- Document Findings with Countermeasure Recommendations
- Module Summary

Module 05: Web Application Penetration Testing

- Learning Objectives
- Security Frame vs. Vulnerabilities vs. Attacks
- OWASP Penetration Testing Framework
- Web Application Footprinting and Enumeration Techniques
- Techniques for Web Vulnerability Scanning
- Test for Vulnerabilities in Application Deployment and Configuration
- Techniques to Assess Identity Management, Authentication, and Authorization Mechanisms
- Evaluate Session Management Security
- Evaluate Input Validation Mechanisms
- Detect and Exploit SQL Injection Vulnerabilities
- Techniques for Identifying and Testing Injection Vulnerabilities
- Exploit Improper Error Handling Vulnerabilities
- Identify Weak Cryptography Vulnerabilities
- Test for Business Logic Flaws in Web Applications
- Evaluate Applications for Client-Side Vulnerabilities
- Module Summary

Module 06: API and Java Web Token Penetration Testing

- Learning Objectives
- API and Java Web Tokens (JWT) Penetration Testing
- Techniques and Tools to Perform API Reconnaissance
- Test APIs for Authentication and Authorization Vulnerabilities
- Evaluate the security of JSON Web Tokens (JWT)
- Test APIs for Input Validation and Injection Vulnerabilities
- Test APIs for Security Misconfiguration Vulnerabilities
- Test APIs for Rate Limiting and Denial of Service (DoS) Attacks
- Test APIs for Security of GraphQL implementations
- Test APIs for Business Logic Flaws and Session Management
- Module Summary

Module 07: Perimeter Defense Evasion Techniques

- Learning Objectives
- Techniques to Evaluate Firewall Security Implementations
- Techniques to Evaluate IDS Security Implementations
- Techniques to Evaluate the Security of Routers
- Techniques to Evaluate the Security of Switches
- Module Summary

Module 08: Windows Exploitation and Privilege Escalation

- Learning Objectives
- Windows Pen Testing Methodology
- Techniques to Perform Reconnaissance on a Windows Target
- Techniques to Perform Vulnerability Assessment and Exploit Verification
- Methods to Gain Initial Access to Windows Systems
- Techniques to Perform Privilege Escalation
- Post-Exploitation Activities
- Module Summary

Module 09: Active Directory Penetration Testing

- Learning Objectives
- Architecture and Components of Active Directory
- Active Directory Reconnaissance
- Active Directory Enumeration
- Exploit Identified Active Directory Vulnerabilities
- Role of Artificial Intelligence in AD Penetration Testing Strategies
- Module Summary

Module 10: Linux Exploitation and Privilege Escalation

- Learning Objectives
- Linux Exploitation and Penetration Testing Methodologies
- Linux Reconnaissance and Vulnerability Scanning
- Techniques to Gain Initial Access to Linux Systems
- Linux Privilege Escalation Techniques
- Module Summary

Module 11: Reverse Engineering, Fuzzing and Binary Exploitation

- Learning Objectives
- Concepts and Methodology for Analyzing Linux Binaries
- Methodologies for Examining Windows Binaries
- Buffer Overflow Attacks and Exploitation Methods
- Concepts, Methodologies, and Tools for Application Fuzzing
- Module Summary

Module 12: Lateral Movement and Pivoting

- Learning Objectives
- Advanced Lateral Movement Techniques
- Advanced Pivoting and Tunneling Techniques to Maintain Access
- Module Summary

Module 13: IoT Penetration Testing

- Learning Objectives
- Fundamental Concepts of IoT Pen Testing
- Information Gathering and Attack Surface Mapping
- Analyze IoT Device Firmware
- In-depth Analysis of IoT Software
- Assess the Security of IoT Networks and Protocols
- Post-Exploitation Strategies and Persistence Techniques
- Comprehensive Pen Testing Reports
- Learning Objectives

Module 14: Report Writing and Post-Testing Actions

- Purpose and Structure of a Penetration Testing Report
- Essential Components of a Penetration Testing Report
- Phases of a Pen Test Report Writing
- Skills to Deliver a Penetration Testing Report Effectively
- Post-Testing Actions for Organizations
- Module Summary

Self-Study Modules

- Penetration Testing Essential Concepts
- Mastering Metasploit Framework
- PowerShell Scripting
- Bash Environment and Scripting
- Python Environment and Scripting
- Perl Environment and Scripting
- Ruby Environment and Scripting
- Wireless Penetration Testing
- OT and SCADA Penetration Testing
- Cloud Penetration Testing
- Database Penetration Testing
- Mobile Device Penetration Testing

Test and Certification

Exam Code : 312-39

Duration : 24 Hours or

Choose 2 Sessions of 12 Hours Each

Report Submission : Submit Pentesting Report within 7 Days of Examination

Test Format : 100% Practical Exam

Dual Certification : Score more than 90% and get one more certification: Licensed Penetration Tester

Session Dates

Aikataulutamme kiinnostuksen mukaan. [Ota yhteyttä](#)

Additional Information

[This training is also available as onsite training. Please contact us to find out more.](#)