

Cyber Security Expert (CSE) Pathway



Program Prerequisites

Basic Knowledge of Information Technology

Core Courses

CompTIA Security+ | 72 hours

Certified Ethical Hacker (CEH) | 72 hours

Splunk Core Certified Power User | 72 hours

UiPath RPA Associate Developer (UiRPA) | 72 hours

CompTIA Linux+ | 72 hours

Cisco Certified Network Associate (CCNA) | 72 hours

CompTIA CASP+ | 108 hours

**Total Cyber Security Expert (CSE) Pathway
Clock Hours | 540 hours**

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Program Goal

Cyber Security Expert (CSE) Pathway from Intellectual Point is a hands-on technical, 540 clock hours program with a cohesive and progressive set of learning outcomes. This program provides the right mix of foundation and intermediate level courses that prepares students to apply for a variety of cyber security positions that support monitoring, detecting, investigating, analyzing, and responding to security events and threats. Cyber Security Experts prepare you to protect systems and infrastructure from cybersecurity risks, threats, and vulnerabilities.

Students, through in-depth theory and extensive hands-on activities, will develop skills to ensure appropriate security controls are in place that will safeguard digital files and vital electronic infrastructure, develop skills to respond to computer security breaches and viruses, and successfully conduct penetration testing. This program also enables students to become skilled in Linux, Networking, Big Data Analytics, and Artificial Intelligence concepts, and teaches highly sought-after skills in popular technologies, such as Splunk and Cisco.

Students gain a very strong foundation in cyber security and become immersed in a curriculum designed to teach the technical skills needed in this ever-changing field. Students also get hands-on experience in Intellectual Point's virtual lab, the Rapid Simulation Center, where they take on real-world cyber security challenges. Throughout the pathway, students will develop strategic and tactical knowledge that can be instantly leveraged in various Cyber Security career roles. This pathway will adequately prepare students to work in various technical roles such as Cyber Security Analyst, Incident Responder, Red and Blue Team Analyst, Penetration Tester, Big Data Analytics Specialist, and Cyber Security Risk and Compliance Manager.

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Educational Objectives & Learning Outcomes

The Cyber Security Expert (CSE) Pathway provides an excellent path for professionals to specialize in mainstream areas of cyber security technologies, solutions, and services. This progression of courses will prepare them for a career in Cyber Security, Information Assurance, Data Science, and Networking. The objective of this program is to empower students to become cyber security experts using well-rounded skills in Cyber Security, Networking and Big Data Analytics with the mindset of a security professional. Over the course of the program, the students will be able to:

- Identify network risks, threats, and vulnerabilities
- Secure computer networks and build on defense fundamentals
- Describe the legal and ethical requirements related to ethical hacking
- Examine and use the tools for conducting ethical hacking
- Plan, organize and perform penetration testing on a simple network
- Develop cybersecurity programs, policies and procedures for implementation
- Evaluate and recommend cyber security systems and solutions for network defense and monitoring
- Learn how to effectively use, navigate and create automation scripts using Linux OS
- Learn how to effectively secure Cloud Computing deployments
- Discuss relevant laws, regulations and frameworks as they apply to cyber security operations
- Prioritize and classify cyber security risks in the Security Operations Center (SOC)
- Learn how to effectively use Incident Response and Threat Monitoring tools such as Splunk
- Build simple LANs, perform basic configurations for routers and switches, and implement IPv4 and IPv6 addressing schemes
- Configure routers, switches and end devices to provide access to local and remote network resources, and enable end-to-end connectivity between remote devices
- Develop critical thinking and problem-solving skills using real equipment and Cisco Packet Tracer
- Configure and troubleshoot connectivity on a small network using security best practices



Professional Objectives

- SOC Team Lead
- Cyber Security Analyst
- Linux System Admin
- Incident Responder
- Penetration Tester
- Red Team / Blue Team Analyst
- SOC Analyst
- Cyber Security Risk Manager
- Network Engineer
- Information Security Manager



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