PINKERTON ACADEMY CTE — CAREER & TECHNICAL EDUCATION · 1814

Cybersecurity Essentials

CISCO Networking Academy

Course Overview

Cybersecurity Essentials covers foundational knowledge and essential skills for all cybersecurity domains including information security, systems security, network security, ethics and laws, and defense and mitigation techniques used in protecting businesses.

Learning Objectives

- Develop critical thinking and problem-solving skills using real equipment and Cisco Packet Tracer
- Understand the players in the cybersecurity world and the motivation of cyber criminals and cybersecurity specialists

Student Experience

- Join the Order of Cyber Hero's
- Fortify your computer from attacks
- Create your own Cybersecurity Countermeasures
- urity professional
- Investigate and eliminate secu   threats

Course Details

- 8 Units
- 12 Lab Simulations
- 6 Hands-on labs
- 34 Interactive activities
- Other course materials and projects
- Earn three (3) college credits

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Students will complete 12 virtual lab simulations, 6 hands-on labs, and 8 unit exams and pass the **CCNA Cybersecurity Essentials** final based on the CCNA Cybersecurity Essentials learning objectives. Other course materials, hands-on labs, and projects are used in addition to Cisco Netacad courseware. Total time **120** hours.

Cisco CCNA Cybersecurity Essentials Learning Objectives

Upon completion of this course, students will be able to:

- Understand the players in the cybersecurity world and motivation of cyber criminals and cybersecurity professionals.
- Learn to identify security attacks, symptoms, processes, and countermeasures.
- Learn foundational and essential knowledge in various security domains, cybersecurity, information security, application security, host and system security, network security, mobile security, security laws, ethics, and security policies.
- Build skills in security management, controls, and protection and mitigation technologies.
- Describe how the principles of confidentiality, integrity, and availability as they relate to data states and cybersecurity countermeasures.
- Describe the tactics, techniques and procedures used by cyber criminals.
- Describe technologies, products and procedures used to protect. confidentiality, ensure integrity and provide high availability.
- Explain the purpose of laws related to cybersecurity.