

CYBERSECURITY: ASSOCIATE – LINUX SYSTEMS ESSENTIALS



COURSE OVERVIEW

Course number: HCCA-OT1301

Course duration: 1 Day

Prerequisite courses: None

Required Skills: Understanding of operating systems, networking concepts, familiarity with virtualization

This course is designed to be accessible to beginners who have never used Linux before. It emphasizes command line usage over graphical user interface tools, acknowledging situations where only shell access may be available. Unlike many existing resources, which focus on Linux administration, this course emphasizes using Linux to accomplish tasks. With minimal slides, the course prioritizes practical, hands-on demonstrations to provide a foundation for average users.

This course is intended for individuals in roles such as System engineers, network engineers, cybersecurity engineers, plant managers, asset owners, and cybersecurity personnel entrusted with security governance, and any IT professional with an interest in learning Linux to perform day to day work or exploring cybersecurity tools based on Linux.

COURSE DELIVERY OPTIONS

- Asynchronous Training (AT)
 - Self-paced with 10 days to complete
- Virtual Instructor-Led Training (VILT)
- Instructor-Led Training (ILT)

AVAILABLE LANGUAGES

- English

COURSE OBJECTIVES

Key Concepts

- Introduction to Linux: Understand the history, development, and significance of Linux as an operating system
- Command Line Basics: Learn essential command line
- File System Hierarchy
- User and Group Management: Learn how to create, modify, and delete user accounts and groups, as well as manage user permissions and privileges
- Package Management: Understand package management systems
- Shell Scripting: Gain proficiency in writing and executing shell scripts to automate tasks and perform system administration tasks
- Process Management: Learn how to monitor and manage processes running on a Linux system
- Networking Basics: Understand fundamental networking concepts
- Security Principles: Explore basic security principles and practices, including user authentication, file permissions, and firewall configuration
- Text Editing: Learn to use text editors like Nano for creating, editing, and saving text files
- Remote Access and File Transfer: Gain knowledge of remote access protocols

Tools and Techniques

- Virtualization: VirtualBox, and VMware
- Operating System: Windows, and Linux