



RECON

CYBER SECURITY

DEFEND | DETECT | SECURE



OUR PARTNERS



OVERVIEW

In this course, students will learn basics of networking and part of the CCNA program, which are most useful in the cybersecurity domain. Topics include interior routing protocols, VLAN, BGP and more.

PRE-REQUISITES

Students should have prior knowledge with Operation System such as : Windows 7, 8, 10, or 11 etc.



WHO WE ARE

We promise to offer the best training and certification programs to our students. We provide the programs and resources you need to succeed if you are just beginning your Cyber security career or are an experienced expert wishing to develop your skills. Contact us today to learn more about our training and certification options!

WHY CHOOSE US

Welcome to our Cyber Security Training Institute, where we are committed to giving individuals and organisations who want to protect their digital assets through training and certification programmes. Our knowledgeable Trainers will bring you through the complexities of cyber security with their cutting-edge expertise and practical experience. You will learn useful methods and abilities to protect yourself from online dangers, such as ethical hacking, network security, incident response, and other things. Our programmes give you the opportunity to hone your skills and grow your profession through practical lab experiences and individualised coaching.



CYBER FORENSICS COURSE CONTENT

COURSE DURATION: 40 hrs

- Lesson 01 : Introduction to Advanced Networking
 - Overview of Networking:
Definition and importance of networking.
 - Types of Networks:
LAN, WAN, MAN, and PAN.
 - Networking Devices:
Introduction to routers, switches, and other essential devices.
- Lesson 02 : Fundamentals of Networking
 - Network Topologies:
Star, Ring, Bus, and Mesh topologies.
 - Network Types:
Client-server and peer-to-peer networking models.
 - Bandwidth and Latency:
Understanding basic performance metrics.
- Lesson 03 : OSI Model v/s TCP/IP Model
 - OSI Model Layers:
In-depth explanation of each OSI layer.
 - TCP/IP Model:
Overview and comparison to OSI model.
 - Real-world Examples:
Understanding how the models work in practical networking.
- Lesson 04 : MAC Address
 - What is a MAC Address:
Purpose and structure of a MAC address.
 - MAC Address in Networking:
Its role in data transmission within LAN.
 - How to Find a MAC Address:
Methods for retrieving a MAC address on various devices.
- Lesson 05 : IP Addressing
 - IPv4 Addressing:
Structure and classes (A, B, C, D, E).
 - IPv6 Addressing:
Benefits and the need for IPv6 over Ipv4.
 - Subnet Masks:
Explanation and importance in networking.
- Lesson 06 : Subnetting
 - What is Subnetting:
Importance and uses in network segmentation.
 - Classful vs. Classless Subnetting:
Understanding the difference.
 - Subnetting Calculation:
Methods to calculate subnets manually and with tools.
- Lesson 07 : Network Cabling
 - Types of Network Cables:
Coaxial, fiber optic, and twisted pair cables.
 - Cable Standards:
TIA/EIA-568 standards and their uses.
 - Cabling Best Practices:
Proper cabling techniques for optimal performance.
- Lesson 08 : Router Fundamentals
 - What is a Router:
Functions and types of routers.
 - Routing Tables:
How routers determine the best path for data.
 - Router Configuration:
Basic commands to configure a router.

- Lesson 09 : Lab Configuration on Packet Tracer
 - ⊙ Introduction to Packet Tracer: Basics of Cisco's simulation tool.
 - ⊙ Creating a Network in Packet Tracer: Step-by-step guide.
 - ⊙ Simulating Network Behavior: Testing configurations and network setups.
- Lesson 10 : Router, Switch and PC Communication
 - ⊙ Basic Network Setup: Connecting devices and configuring communication.
 - ⊙ Testing Communication: Using ping and tracer commands.
 - ⊙ Understanding Data Flow: How data travels between devices in a network.
- Lesson 11 : Routing Protocols
 - ⊙ Default Routing: Introduction to basic routing.
 - ⊙ Static Routing: Configuring and using static routes.
 - ⊙ Static Routing with Subnetting: Implementing static routes in subnets.
- Lesson 12 : Dynamic Routing
 - ⊙ RIP (Routing Information Protocol): Basics and configuration.
 - ⊙ EIGRP (Enhanced Interior Gateway Routing Protocol): Setup and advantages.
 - ⊙ OSPF (Open Shortest Path First): Configuring OSPF for dynamic routing.
- Lesson 13 : DHCP
 - ⊙ What is DHCP: Purpose and benefits of DHCP in network management.
 - ⊙ DHCP Configuration: Setting up a DHCP server and client.
 - ⊙ Troubleshooting DHCP Issues: Common problems and solutions.
- Lesson 14 : NAT (Network Address Translation)
 - ⊙ What is NAT: Role in IP address conservation and security.
 - ⊙ Types of NAT: Static NAT, dynamic NAT, and PAT (Port Address Translation).
 - ⊙ NAT Configuration: Setting up NAT on a router.
- Lesson 15 : V-LAN Configuration
 - ⊙ What is VLAN: Importance of VLANs in network segmentation.
 - ⊙ Creating VLANs: Steps to create and manage VLANs.
 - ⊙ VLAN Tagging: Understanding VLAN Trunks and 802.1Q tagging.
- Lesson 16 : ACL (Access Control List)
 - ⊙ What is ACL: Importance of access control in network security.
 - ⊙ Types of ACLs: Standard vs. Extended ACLs.
 - ⊙ Configuring ACLs: How to apply ACLs to control traffic.
- Lesson 17 : BGP Configuration
 - ⊙ What is BGP: Role of BGP in large-scale network routing.
 - ⊙ BGP Path Selection: Understanding BGP's decision-making process.
 - ⊙ BGP Configuration: Step-by-step guide to configure BGP.

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- ◆ 20 gb toolkit
 - ◆ Weekend / weekdays classes
 - ◆ Online and offline classes
 - ◆ Certificate after completion
 - ◆ Interview preparation
 - ◆ Live hacking training
 - ◆ Class session recordings
 - ◆ Ebooks tutorials 24x7 support



Every Class Recordings



Easy Repetations



Shareable Content



Hybrid Classes



Checkpoint Based Training



24x7 Support



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