



Cyber Security

About the Program

This program offers a comprehensive compilation of three segmented training models, each focusing on a crucial aspect of the IT industry: Cyber Security, Networking, and IT Infrastructure. By combining these three models, participants gain a holistic understanding of these vital domains. Each training model plays a pivotal role in its own right, ensuring participants develop a well-rounded skill set and knowledge base. From acquiring expertise in Cyber Security to mastering Networking and IT Infrastructure, this program equips participants with the essential capabilities needed to thrive in the dynamic field of IT.

Other Details

Timings Monday - Thursday (3 hours) Saturday (5 hours)	Job Assist Resume assistance, career mentoring and job portal access	Certified Trainers Trainer with more than 25 years of experience in Cloud Computing	Projects 4 Capstone projects to make you industry ready
Total Students 25	Mode Online / Offline	Duration This part time program is for 2 months	Deadline Register before 30th September, 2023

Capstone Project

- Packet Sniffing (Network Traffic Analysis)
- Website Scrapper
- Key Logging
- Bug Bounties

Cyber Security

Course Objective

Learners need to possess an undergraduate degree or a high school diploma. Having prior knowledge of networking, operating systems, and programming languages such as Python, C, or Java can be beneficial.

Prerequisites

Learners need to possess an undergraduate degree or a high school diploma. Having prior knowledge of networking, operating systems, and programming languages such as Python, C, or Java can be beneficial.

Skills Covered

- Reconnaissance and Footprinting
- Malware Analysis
- Trojans backdoors and countermeasures
- Wireless Network Security
- IDS, firewalls and honeypots
- Mobile, IoT and Web Security
- Vulnerability Assessment

Job Roles

- Information Security Officer
- Vulnerability Analyst
- Network Security Engineer
- Security Analyst
- Penetration Testing
- IT Security Administration
- Security Audit
- System Security
- Network Security
- Solution Architect
- Security Consulting
- Security Compliance

Curriculum

Module 1: Introduction to Ethical Hacking

- Elements of Information Security
- Cyber Kill Chain Methodology
- MITRE ATT&CK Framework
- Hacker Classes
- Ethical Hacking
- Information Assurance (IA)
- Risk Management
- Incident Management
- PCI DSS
- HIPPA
- SOX
- GDPR

Module 2: Footprinting and Reconnaissance

Module 3: Scanning Networks

Module 4: Enumeration

Module 5: Vulnerability Analysis

Module 6: System Hacking

Module 7: Malware Threats

Module 8: Sniffing

Module 9: Social Engineering

Module 10: Denial-of-Service

Module 11: Session Hijacking

Module 12: Evading IDS, Firewalls, and Honeypots

Module 13: Hacking Web Servers

Module 14: Hacking Web Applications

Module 15: SQL Injections

Module 16: Hacking Wireless Networks

Module 17: Hacking Mobile Platforms

Module 18: IoT Hacking & OT Hacking

Module 19: Cloud Computing

Module 20: Cryptography

Networking Training Program

About the program

CompTIA's Network+ certification validates the knowledge and skills needed to troubleshoot, configure and manage both wired and wireless networks found in companies around the world. CompTIA Network+ certifies a professional-level understanding of emerging technologies including cloud and virtualization technologies.

Course Objective

This course is designed to enable the learner to describe the major networking technologies and systems of modern networks, and be able to configure, manage, and troubleshoot modern networks. This course covers the concepts of the CompTIA Network+ coverage and would help prepare the learner for the same.

Prerequisites

CompTIA A+ and a minimum of 9-12 months of hands-on networking experience recommended.

Skills Covered

- Identify basic network theory concepts and major network communications methods.
- Describe bounded network media.
- Identify unbounded network media.
- Identify the major types of network implementations.
- Identify TCP/IP addressing and data delivery methods.
- Implement routing technologies.
- Identify the major services deployed on TCP/IP networks.
- Identify the infrastructure of a WAN implementation.
- Identify the components used in cloud computing and virtualization.
- Describe basic concepts related to network security.
- Prevent security breaches.
- Respond to security incidents.
- Identify the components of a remote network implementation.
- Identify the tools, methods, and techniques used in managing a network.
- Describe troubleshooting of issues on a network.

Job Roles

- Business Analyst
- Systems Administrator
- MSP Personnel
- Data Center Manager
- IT Server Technician
- Data Architect Network Security Specialist
- Server Administrator

Curriculum

Module 1: Local Area Networks

Topologies and the OSI Model

- Key Features of Networks
- Network Topologies
- The OSI Model
- Physical Layer
- Data Link Layer
- Network Layer
- Transport Layer
- Upper Layers
- OSI Model Summary
- Labs
- VM Orientation Ethernet
- Transmission Media
- Media Access Control
- Broadcast Domains
- Ethernet Frames
- Ethernet Deployment Standards
- MAC Addressing
- Address Resolution Protocol (ARP) Packet Sniffers
- Labs
- Configuring Ethernet Networking Hubs, Bridges, and Switches
- Hubs and Bridges
- Switches
- Switch Interface Configuration
- Spanning Tree Protocol (STP)
- Power over Ethernet (PoE)

Module 2: IP Addressing

Module 3: Internetworking

Module 4: Applications and Security

Module 5: Operations and Infrastructure

IT Infra – Training Program

About the program

ITIL 4 Foundation introduces an end-to-end operating model for the creation, delivery and continual improvement of technology-enabled products and services. ITIL 4 Foundation is for anyone who needs to understand the key concepts of IT and digital service delivery, and who is interested in helping their organization embrace the new service management culture. It is for professionals at the start of their ITIL 4 journey or people looking to update their existing ITIL knowledge.

Prerequisites

This ITIL V4 certification training course is best suited for IT executives, IT architects, operations managers, IT audit managers, IT planners and consultants, database administrators, ITSM trainers, service delivery professionals, quality analysts, application management and development teams, and IT managers. Obtaining the ITIL V4 foundation certification is available to both seasoned IT professionals and those fresh in their IT career. Learners need to possess an undergraduate degree or a high school diploma

Skills Covered

- The ITIL Service Management System
- The Service Value Chain
- Continual Improvement best practices
- Key Guiding Principles
- Governance Requirements
- Key ITIL Practices, including:
 - Incident Management
 - Service Request Fulfillment
 - Service Level Management
 - Service Desk
 - Change Control
 - Continual Improvement
- And many more

Job Roles

- Solution Architect
- Database Administrators
- Service Delivery Manager
- ITSM Manager
- System Administrator
- Quality Assurance

Course Objective

ITIL 4 expands the scope of the world's leading best practice framework for IT to incorporate many new ways of working, including Agile, LEAN, DevOps, and other innovative approaches. In this course the learners will learn the core aspects of the ITIL Framework and how to use it to improve the quality of services that are delivered to the customers.

Curriculum

Module 1: Overview

- Introduction to ITIL
- Key Concepts of ITIL

Module 2: The ITIL Framework

Module 3: The ITIL Guiding Principles

Module 4: The ITIL Service Value System (SVS)

Module 5: Key ITIL Practices

Module 6: Other ITIL Practices

Offline Location

Susan J. Wallace Community Centre
G8M7+3JP, Nansen Ave, Freeport, Bahamas