

CYBERSECURITY ANALYST JOB READY PROGRAM



Transform from Beginner to Industry-Ready Cybersecurity Professional

Are you passionate about technology and security? Do you dream of a career safeguarding critical systems and data? Wissenhive's Cyber Security Job Ready Program is your gateway to a fulfilling and in-demand cybersecurity profession, even with no prior IT experience!

Benefits



4 Skill-Focused
Cyber Security
Courses



2 CompTIA Certification
Vouchers
(Network+ & PenTest+)



Live Instructor-Led
Sessions +
Virtual Labs



Real-World
Projects & Case
Studies



Placement
Assistance & Resume
Building



Access to
Virtual Labs &
Job Portal

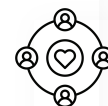
Why Wissenhive?



Expert
Instructors



Flexible Learning
Options



Supportive
Community

Program Content

Course 1 :- Linux Administration

Lesson 1 : Introducing Linux

- **Topic 1A:** Identify Linux Characteristics
- **Topic 1B:** Understand Bash Interaction with Linux
- **Topic 1C:** Use Help in Linux
- **Topic 1D:** Identify the Linux Troubleshooting Methodology

Lesson 2 : Administering Users and Groups

- **Topic 2A:** Manage User Accounts
- **Topic 2B:** Manage Group Accounts
- **Topic 2C:** Configure Privilege Escalation
- **Topic 2C:** Troubleshoot User and Group Issues

Lesson 3 : Configuring Permissions

- **Topic 3A:** Configure Standard Linux Permissions
- **Topic 3B:** Configure Special Linux Permissions
- **Topic 3C:** Configure Access Control Lists

Lesson 4 : Implementing File Management

- **Topic 4A:** Understand the Linux File System
- **Topic 4B:** Use File Management Commands
- **Topic 4B:** Find File Locations

Lesson 5 : Authoring Text Files

- **Topic 5A:** Edit Text Files
- **Topic 5B:** Manage Text Files

Lesson 6 : Managing Software

- **Topic 6A:** Understand Software Management
- **Topic 6B:** Manage RPM Software Packages and Repositories
- **Topic 6C:** Manage Debian-based Software Packages and Repositories
- **Topic 6D:** Compile from Source Code
- **Topic 6E:** Acquire Software
- **Topic 6F:** Run Software in a Sandbox

Lesson 7 : Administering Storage

- **Topic 7A:** Apply Risk Identification, Calculation, and Prioritization Processes
- **Topic 7B:** Explain Frameworks, Policies, and Procedures

- **Topic 7C:** Manage Other Storage Options
- **Topic 7D:** Troubleshoot Storage

Lesson 8 : Managing Devices, Processes, Memory, and the Kernel

- **Topic 8A:** Gather Hardware Information
- **Topic 8B:** Manage Processes
- **Topic 8C:** Manage Memory
- **Topic 8D:** Manage the Linux Kernel

Lesson 9 : Managing Services

- **Topic 9A:** Manage System Services
- **Topic 9B:** Configure Common System Services
- **Topic 9C:** Configure Localization Settings

Lesson 10 : Configuring Network Settings

- **Topic 10A:** Understand Network Fundamentals
- **Topic 10B:** Manage Network Settings
- **Topic 10C:** Configure Remote Administrative Access
- **Topic 10D:** Troubleshoot the Network

Lesson 11 : Configuring Network Security

- **Topic 11A:** Configure the Firewall
- **Topic 11B:** Monitor Network Traffic

Lesson 12 : Managing Linux Security

- **Topic 12A:** Harden a Linux System
- **Topic 12B:** Manage Certificates
- **Topic 12C:** Understand Authentication
- **Topic 12D:** Configure SELinux or AppArmor

Lesson 13 : Implementing Simple Scripts

- **Topic 13A:** Understand Bash Scripting Basics
- **Topic 13B:** Use Shell Script Elements
- **Topic 13C:** Implement Scripts with Logical Controls

Lesson 14 : Using Infrastructure as Code

- **Topic 14A:** Understand Infrastructure as Code
- **Topic 14B:** Implement Orchestration
- **Topic 14C:** Manage Version Control with Git

Lesson 15 : Managing Containers in Linux

- **Topic 15A:** Understand Containers
- **Topic 15B:** Deploy Containers
- **Topic 15C:** Understand Virtualization Concepts

Lesson 16 : Installing Linux

- **Topic 16A:** The Linux Boot Process
- **Topic 16B:** Modify Boot Settings
- **Topic 16C:** Deploy Linux

Course 2 :- Network Administration & Security

Lesson 1 : Comparing OSI Model Network Functions

- **Topic 1A:** Compare and Contrast OSI Model Layers
- **Topic 1B:** Configure SOHO Networks

Lesson 2 : Deploying Ethernet Cabling

- **Topic 2A:** Summarize Ethernet Standards
- **Topic 2B:** Summarize Copper Cabling Types
- **Topic 2C:** Summarize Fiber Optic Cabling Types
- **Topic 2D:** Deploy Ethernet Cabling

Lesson 3 : Deploying Ethernet Switching

- **Topic 3A:** Deploy Networking Devices
- **Topic 3B:** Explain Network Interfaces
- **Topic 3C:** Deploy Common Ethernet Switching Features

Lesson 4 : Troubleshooting Ethernet Networks

- **Topic 4A:** Explain Network Troubleshooting Methodology
- **Topic 4B:** Troubleshoot Common Cable Connectivity Issues

Lesson 5 : Explaining IPv4 Addressing

- **Topic 5A:** Explain IPv4 Addressing Schemes.
- **Topic 5B:** Explain IPv4 Forwarding
- **Topic 5C:** Configure IP Networks and Subnets

Lesson 6 : Supporting IPv4 and IPv6 Networks

- **Topic 6A:** Use Appropriate Tools to Test IP Configuration
- **Topic 6B:** Troubleshoot IP Networks
- **Topic 6C:** Explain IPv6 Addressing Schemes

Lesson 7 : Configuring and Troubleshooting Routers

- **Topic 7A:** Compare and Contrast Routing Concepts
- **Topic 7B:** Compare and Contrast Dynamic Routing Concepts
- **Topic 7C:** Install and Troubleshoot Routers

Lesson 8 : Explaining Network Topologies and Types

- **Topic 8A:** Explain Network Types and Characteristics
- **Topic 8B:** Explain Tiered Switching Architecture
- **Topic 8C:** Explain Virtual LANs

Lesson 9 : Explaining Transport Layer Protocols

- **Topic 9A:** Compare and Contrast Transport Protocols
- **Topic 9B:** Use Appropriate Tools to Scan Network Ports

Lesson 10 : Explaining Network Services

- **Topic 10A:** Explain the Use of Network Addressing Services
- **Topic 10B:** Explain the Use of Name Resolution Services
- **Topic 10C:** Configure DNS Services

Lesson 11 : Explaining Network Applications

- **Topic 11A:** Explain the Use of Web, File/Print, and Database Services
- **Topic 11B:** Explain the Use of Email and Voice Services

Lesson 12 : Ensuring Network Availability

- **Topic 12A:** Explain the Use of Network Management Services
- **Topic 12B:** Use Event Management to Ensure Network Availability
- **Topic 12C:** Use Performance Metrics to Ensure Network Availability

Lesson 13 : Explaining Common Security Concepts

- **Topic 13A:** Explain Common Security Concepts
- **Topic 13B:** Explain Authentication Methods

Lesson 14 : Supporting and Troubleshooting Secure Networks

- **Topic 14A:** Compare and Contrast Security Appliances
- **Topic 14B:** Troubleshoot Service and Security Issues

Lesson 15 : Deploying and Troubleshooting Wireless Networks

- **Topic 15A:** Summarize Wireless Standards
- **Topic 15B:** Install Wireless Networks
- **Topic 15C:** Troubleshoot Wireless Networks
- **Topic 15D:** Configure and Troubleshoot Wireless Security

Lesson 16 : Comparing WAN Links and Remote Access Methods

- **Topic 16A:** Explain WAN Provider Links
- **Topic 16B:** Compare and Contrast Remote Access Methods

Lesson 17 : Explaining Organizational and Physical Security Concepts

- **Topic 17A:** Explain Organizational Documentation and Policies
- **Topic 17B:** Explain Physical Security Methods
- **Topic 17C:** Compare and Contrast Internet of Things Devices

Lesson 18 : Explaining Disaster Recovery and High Availability Concepts

- **Topic 18A:** Topic 18A: Explain Disaster Recovery Concepts
- **Topic 18B:** Explain High Availability Concepts

Lesson 19 : Applying Network Hardening Techniques

- **Topic 19A:** Compare and Contrast Types of Attacks
- **Topic 19B:** Apply Network Hardening Techniques

Lesson 20 : Summarizing Cloud and Datacenter Architecture

- **Topic 20A:** Summarize Cloud Concepts
- **Topic 20B:** Explain Virtualization and Storage Area Network Technologies
- **Topic 20C:** Explain Datacenter Network Architecture

Course 3 :- Advanced Penetration Testing

Lesson 1 : Scoping Organizational/Customer Requirements

- **Topic 1A:** Define Organizational PenTesting
- **Topic 1B:** Acknowledge Compliance Requirements
- **Topic 1C:** Compare Standards and Methodologies
- **Topic 1D:** Describe Ways to Maintain Professionalism

Lesson 2 : Defining the Rules of Engagement

- **Topic 2A:** Assess Environmental Considerations
- **Topic 2B:** Outline the Rules of Engagement
- **Topic 2C:** Prepare Legal Documents

Lesson 3 : Footprinting and Gathering Intelligence

- **Topic 3A:** Discover the Target
- **Topic 3B:** Gather Essential Data
- **Topic 3C:** Compile Website Information
- **Topic 3D:** Discover Open-Source Intelligence Tools

Lesson 4 : Evaluating Human and Physical Vulnerabilities

- **Topic 4A:** Exploit the Human Psyche
- **Topic 4B:** Summarize Physical Attacks
- **Topic 4C:** Use Tools to Launch a Social Engineering Attack

Lesson 5 : Preparing the Vulnerability Scan

- **Topic 5A:** Plan the Vulnerability Scan
- **Topic 5B:** Detect Defenses
- **Topic 5C:** Utilize Scanning Tools

Lesson 6 : Scanning Logical Vulnerabilities

- **Topic 6A:** Scan Identified Targets
- **Topic 6B:** Evaluate Network Traffic
- **Topic 6C:** Uncover Wireless Assets

Lesson 7 : Analyzing Scanning Results

- **Topic 7A:** Discover Nmap and NSE
- **Topic 7B:** Enumerate Network Hosts
- **Topic 7C:** Analyze Output from Scans

Lesson 8 : Avoiding Detection and Covering Tracks

- **Topic 8A:** Evade Detection
- **Topic 8B:** Use Steganography to Hide and Conceal
- **Topic 8C:** Establish a Covert Channel

Lesson 9 : Exploiting the LAN and Cloud

- **Topic 9A:** Enumerating Hosts
- **Topic 9B:** Attack LAN Protocols
- **Topic 9C:** Compare Exploit Tools
- **Topic 9D:** Discover Cloud Vulnerabilities
- **Topic 9E:** Explore Cloud-Based Attacks

Lesson 10 : Testing Wireless Networks

- **Topic 10A:** Discover Wireless Attacks
- **Topic 10B:** Explore Wireless Tools

Lesson 11 : Targeting Mobile Devices

- **Topic 11A:** Recognize Mobile Device Vulnerabilities
- **Topic 11B:** Launch Attacks on Mobile Devices
- **Topic 11C:** Outline Assessment Tools for Mobile Devices

Lesson 12 : Attacking Specialized Systems

- **Topic 12A:** Identify Attacks on the IoT
- **Topic 12B:** Recognize Other Vulnerable Systems
- **Topic 12C:** Explain Virtual Machine Vulnerabilities

Lesson 13 : Web Application-Based Attacks

- **Topic 13A:** Recognize Web Vulnerabilities
- **Topic 13B:** Launch Session Attacks
- **Topic 13C:** Plan Injection Attacks
- **Topic 13D:** Identify Tools

Lesson 14 : Performing System Hacking

- **Topic 14A:** System Hacking
- **Topic 14B:** Use Remote Access Tools
- **Topic 14C:** Analyze Exploit Code

Lesson 15 : Scripting and Software Development

- **Topic 15A:** Analyzing Scripts and Code Samples
- **Topic 15B:** Create Logic Constructs
- **Topic 15C:** Automate Penetration Testing

Lesson 16 : Leveraging the Attack: Pivot and Penetrate

- **Topic 16A:** Test Credentials
- **Topic 16B:** Move Throughout the System
- **Topic 16C:** Maintain Persistence

Lesson 17 : Communicating During the PenTesting Process

- **Topic 17A:** Define the Communication Path
- **Topic 17B:** Communication Triggers
- **Topic 17C:** Use Built-In Tools for Reporting

Lesson 18 : Summarizing Report Components

- **Topic 18A:** Identify Report Audience
- **Topic 18B:** List Report Contents
- **Topic 18C:** Define Best Practices for Reports

Lesson 19 : Recommending Remediation

- **Topic 19A:** Employ Technical Controls
- **Topic 19B:** Administrative and Operational Controls
- **Topic 19C:** Physical Controls

Lesson 20 : Performing Post-Report Delivery Activities

- **Topic 20A:** Post-Engagement Cleanup
- **Topic 20B:** Follow-Up Actions

Course 4 :- Security Administration

Lesson 1 : Explaining the Importance of Security Controls and Security Intelligence

- **Topic 1A:** Identify Security Control Types
- **Topic 1B:** Explain the Importance of Threat Data and Intelligence

Lesson 2 : Utilizing Threat Data and Intelligence

- Topic 2A: Classify Threats and Threat Actor Types
- Topic 2B: Utilize Attack Frameworks and Indicator Management
- Topic 2C: Utilize Threat Modeling and Hunting Methodologies

Lesson 3 : Analyzing Security Monitoring Data

- Topic 3A: Analyze Network Monitoring Output
- Topic 3B: Analyze Appliance Monitoring Output
- Topic 3C: Analyze Endpoint Monitoring Output
- Topic 3D: Analyze Email Monitoring Output

Lesson 4 : Collecting and Querying Security Monitoring Data

- Topic 4A: Configure Log Review and SIEM Tools
- Topic 4B: Analyze and Query Logs and SIEM Data

Lesson 5 : Utilizing Digital Forensics and Indicator Analysis Techniques

- Topic 5A: Identify Digital Forensics Techniques
- Topic 5B: Analyze Network-related IoCs
- Topic 5C: Analyze Host-related IoCs
- Topic 5D: Analyze Application-Related IoCs
- Topic 5E: Analyze Lateral Movement and Pivot IoCs

Lesson 6 : Applying Incident Response Procedures

- Topic 6A: Explain Incident Response Processes
- Topic 6B: Apply Detection and Containment Processes
- Topic 6C: Apply Eradication, Recovery, and Post-Incident Processes

Lesson 7 : Applying Risk Mitigation and Security Frameworks

- Topic 7A: Apply Risk Identification, Calculation, and Prioritization Processes
- Topic 7B: Explain Frameworks, Policies, and Procedures

Lesson 8 : Performing Vulnerability Management

- Topic 8A: Analyze Output from Enumeration Tools
- Topic 8B: Configure Infrastructure Vulnerability Scanning Parameters
- Topic 8C: Analyze Output from Infrastructure Vulnerability Scanners
- Topic 8D: Mitigate Vulnerability Issues

Lesson 9 : Applying Security Solutions for Infrastructure Management

- Topic 9A: Apply Identity and Access Management Security Solutions
- Topic 9B: Apply Network Architecture and Segmentation Security Solutions
- Topic 9C: Explain Hardware Assurance Best Practices
- Topic 9D: Explain Vulnerabilities Associated with Specialized Technology

Lesson 10 : Understanding Data Privacy and Protection

- Topic 10A: Identify Non-Technical Data and Privacy Controls
- Topic 10B: Identify Technical Data and Privacy Controls

Lesson 11 : Applying Security Solutions for Software Assurance

- Topic 11A: Mitigate Software Vulnerabilities and Attacks
- Topic 11B: Mitigate Web Application Vulnerabilities and Attacks
- Topic 11C: Analyze Output from Application Assessments

Lesson 12 : Applying Security Solutions for Cloud and Automation

- Topic 12A: Identify Cloud Service and Deployment Model Vulnerabilities
- Topic 12B: Explain Service-Oriented Architecture
- Topic 12C: Analyze Output from Cloud Infrastructure Assessment Tools
- Topic 12D: Compare Automation Concepts and Technologies

Testimonials:



“ Vanessa Diaz

Wissenhive's program provided a comprehensive foundation in vulnerability assessment, including advanced techniques like social engineering and exploitation. The labs and simulations were particularly valuable in helping me develop practical skills for penetration testing



“ David Patel

I had no prior IT experience, but Wissenhive's program made the transition to cybersecurity seamless. The program is well structured, and the hands-on learning was very beneficial.



“ William Chen

The Wissenhive program impressed me with its in-depth coverage of network security fundamentals. I especially appreciated the courses on network traffic analysis and wireless network security, which gave me valuable insights into these critical areas.

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