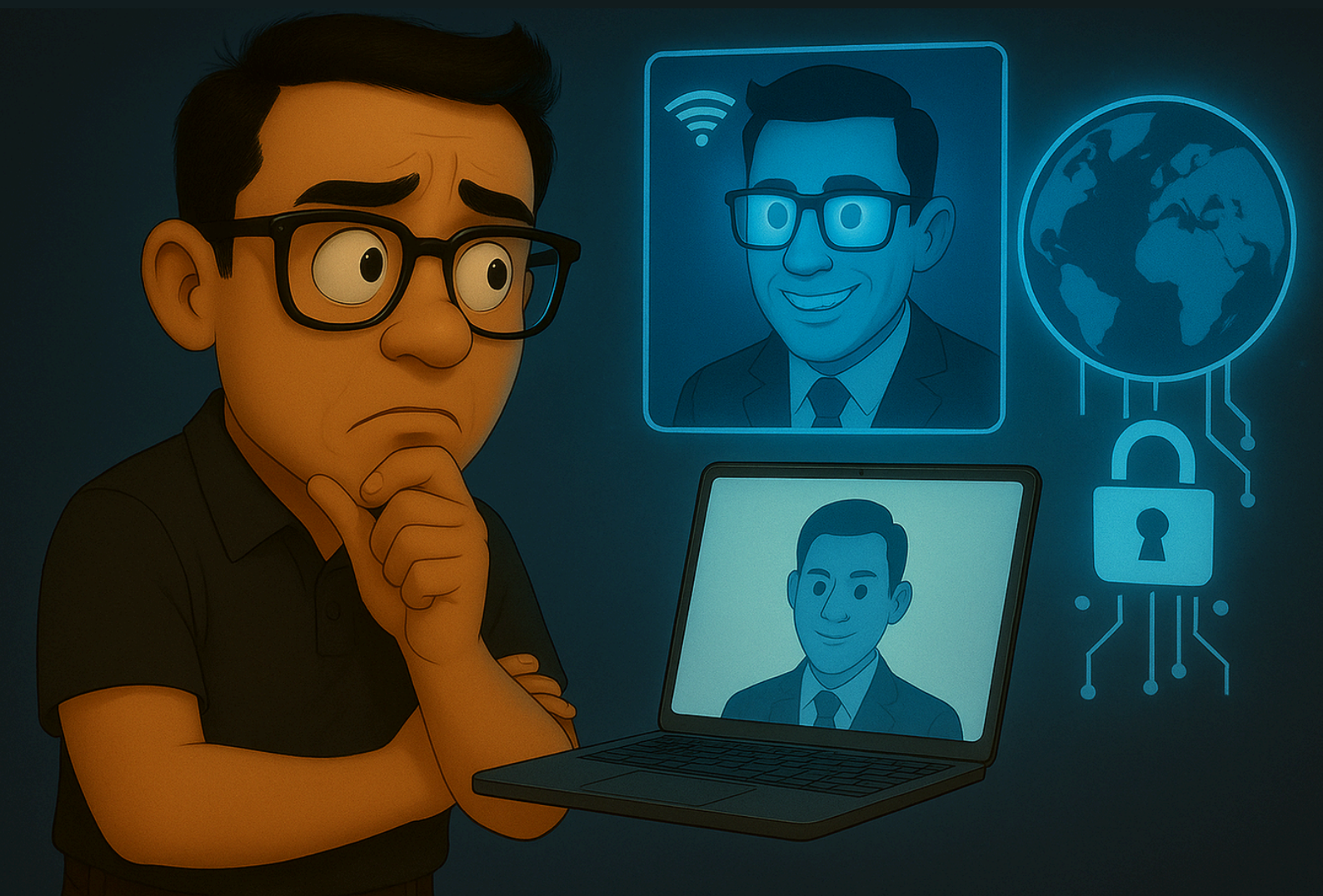
Cloud Upskill
Learn, Upskill. Succeed!

Get Secured with

CYBER SECURITY

Training & Placement Program



About
Cloud Upskill

Cloud Upskill courses are designed to enhance your skills which helps to advance your career.

Our courses come with 24/7 support and are delivered by Experts. These courses help learners increase their employability, and our outstanding career services help them jump start their careers in their dream jobs

Our program– Cybersecurity aims toward empowering both Non IT & IT Professionals to upskill in the most effective way.

Who may benefit this course?

Beginners: Individuals new to the field can learn the fundamentals of cybersecurity and build a solid foundation.

IT Professionals: IT professionals specialize in cybersecurity, enhance their skills, and advance their careers.

Career Changers: Individuals looking to switch careers can find cybersecurity courses to be a great way to enter the field.

Developers: It can help developers create more secure applications.

Network Administrators: Courses can help network administrators enhance their security skills.

Course Content

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Introduction to Cybersecurity

- Introduction to Cybersecurity
- Difference between Information Security & Cybersecurity
- Protecting digital assets
- Difference between Information Security & Cyber security
- Cyber security Objectives
- Cyber security Roles and Career Paths

Introduction to Linux OS

- Linux File System (ext4, permissions, directories)
- User Interface & Command Line Basics (shell, terminal, commands)
- User Accounts & Permissions (root, users, sudo)
- Process Management & System Performance (top, ps, kill, load monitoring)
- Security Features (firewalls, user permissions, SSH)
- Linux Networking Basics (network configuration, file sharing, SSH)
- System Maintenance & Updates (package management, updates, backups)

Fundamentals of Linux OS

- Introduction to Networking (basic concepts, LAN, WAN, MAN)
- OSI and TCP/IP Models (layers, functions, protocols
- IP Addressing and Subnetting (IPv4, IPv6, subnet masks, CIDR
- Routing Fundamentals (routing protocols, static vs. dynamic routing)
- Switching Concepts (MAC addresses, VLANs, STP)
- Network Topologies and Architectures (star, mesh, hybrid, client-server, peer-to-peer)

Networking Fundamentals

- Network management o LAN/WAN security
- Network risks
- Wireless local area networks
- Wired equivalent privacy & Wi-Fi protected access (WPA/WPA2)
- Ports & protocols
- Port numbers
- Protocol numbers & assignment services o Virtual private networks
- Different attacks
- Web application Security
- System development life cycle (SDLC)
- Security within SDLC
- Design requirements
- Testing
- Review process
- Separation of development, testing, & production environments

Network Security

- Network Attacks and Defense Strategies
- Administrative Network Security
- Technical Network Security
- Network Perimeter Security
- Endpoint Security- Windows System
- Endpoint Security- Linux Systems
- Endpoint Security- Mobile Devices
- Endpoint Security- IoT Devices
- Administrative Application Security

- Data Security
- Enterprise Virtual Network Security
- Enterprise Cloud Network Security
- Enterprise Wireless Network Security
- Network Traffic Monitoring and Analysis
- Network Logs Monitoring and Analysis

Ethical Hacking

- Introduction To Required Skills For Security
- Introduction & Overview
- UNIX/Linux
- Introducing Linux
- Overview of Virtual Machines
- Introduction to Vulnerability Assessment
- Introduction to the Hacking Process
- Challenges of Staying Current

Penetration Testing

- What is Penetration Testing
- Web Application Penetration Testing
- Network and Wireless Penetration Testing
- Exploiting Vulnerabilities and Privilege Escalation
- Post-Exploitation Techniques
- Penetration Testing Methodologies
- Network Penetration Testing – External

Course Content

- Network Penetration Testing – Internal
- Network Penetration Testing – Perimeter Devices
- Web Application Penetration Testing
- Wireless Penetration Testing
- IoT Penetration Testing
- OT/SCADA Penetration Testing
- Cloud Penetration Testing
- Binary Analysis and Exploitation
- Report Writing and Post Testing Actions

Threat Intelligence

- Introduction to Threat Intelligence
- Cyber Threats and Attack Frameworks
- Requirements, Planning, Direction, and Review
- Data Collection and Processing
- Data Analysis
- Intelligence Reporting and Dissemination
- Threat Hunting and Detection
- Threat Intelligence in SOC Operations, Incident Response, & Risk Management

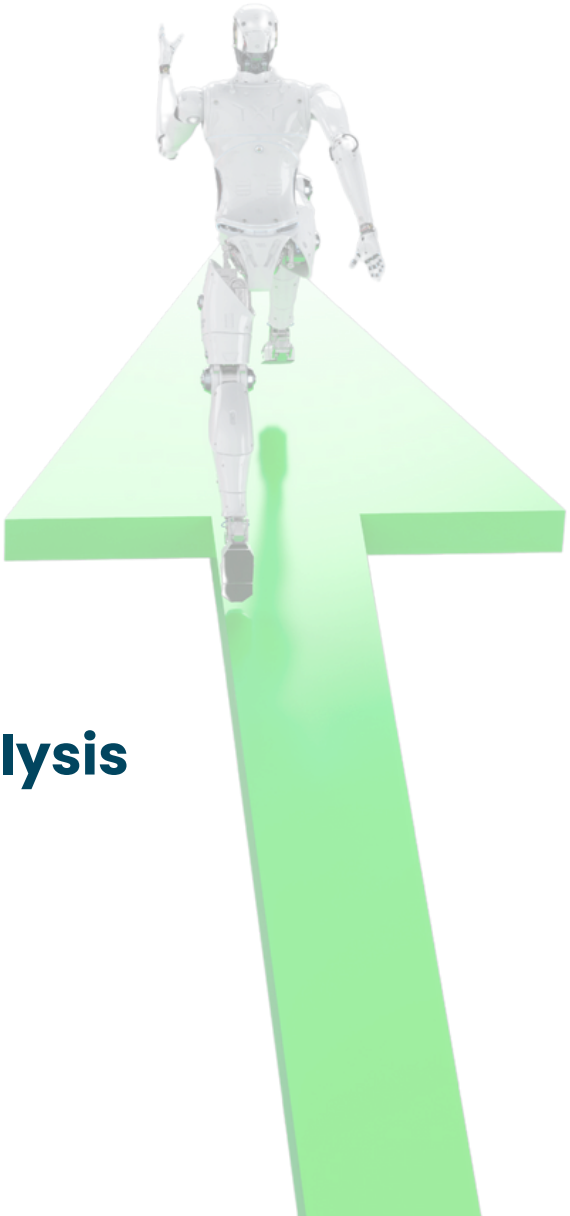
Incident Handle

- Introduction to Incident Handling and Response
- Incident Handling and Response Process

- First Response
- Handling & Responding to Malware Incidents
- Handling & Responding to Email Security Incidents
- Handling & Responding to Network Security Incidents
- Handling & Responding to Web Application Security Incidents
- Handling & Responding to Cloud Security Incidents
- Handling & Responding to Insider Threats
- Handling & Responding to Endpoint Security Incidents

Disaster Recovery Professional

- Introduction to Disaster Recovery and Business Continuity
- Business Continuity Management
- Risk Assessment
- Business Impact Analysis
- Business Continuity Plan
- Data Backup
- Data Recovery Strategies
- Virtualization Bases Disaster Recovery
- System Recovery
- Centralized and Decentralized Computing
- Disaster Recovery Planning Process
- BCP Testing, Maintenance, and Training



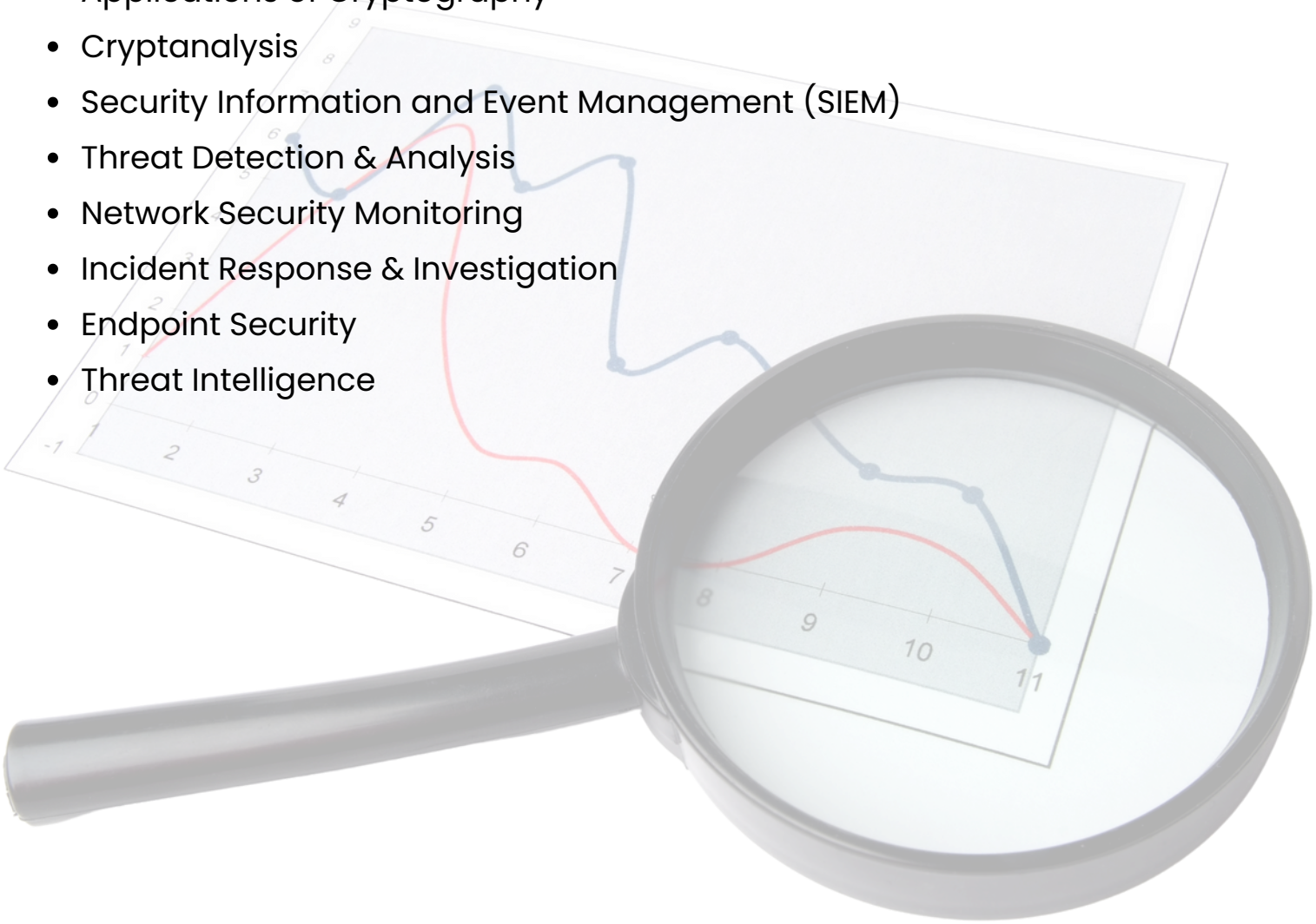
Digital Forensics & Malware Analysis

- Forensic Data Acquisition & Imaging
- Memory & Disk Analysis Techniques

- Network Traffic Analysis for Threat Hunting
- Email Header Analysis for Phishing Detection
- Log Analysis & Correlation Techniques
- Incident Reporting & Documentation Best Practices

SOC Analyst

- What is a SOC and how it operates?
- Introduction and History of Cryptography
- Symmetric Cryptography & Hashes
- Number Theory and Asymmetric Cryptography
- Applications of Cryptography
- Cryptanalysis
- Security Information and Event Management (SIEM)
- Threat Detection & Analysis
- Network Security Monitoring
- Incident Response & Investigation
- Endpoint Security
- Threat Intelligence



Our Students Placed in

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