



Cyber Security & Ethical Hacking

**Advanced Certification Program
in Collaboration with**





About The Program

Sky States, in collaboration with Microsoft, presents the Cybersecurity & Ethical Hacking Program, designed to accelerate your career in cybersecurity with top-tier training and essential industry skills. This comprehensive program covers high-demand areas such as network security, ethical hacking, penetration testing, cloud security, risk management, incident response, and more, ensuring hands-on experience with crucial tools.

Built for job readiness, the program leverages our 10+ years of expertise in US IT recruitment, equipping you with the skills needed to thrive in the industry. You will gain in-depth knowledge of cyber security threats, mastery of ethical hacking techniques, and strong security expertise, positioning you as a Microsoft-certified expert ready to excel in the ever-evolving field of cybersecurity.

About Microsoft and Sky States Collaboration

Microsoft is a globally recognized technology leader, offering a broad range of innovative technology solutions, cloud services, and consulting expertise. With an annual research and development investment exceeding \$20 billion, Microsoft continues to drive advancements in cybersecurity, artificial intelligence, cloud computing, and digital transformation. The company has received numerous prestigious honours, including three Turing Awards, 10 U.S. National Medals of Technology and Innovation, and 10 U.S. National "Medals of Science"

In collaboration with Microsoft, Sky States offers a world-class Cybersecurity & Ethical Hacking Program designed to provide learners with a cutting-edge, industry-focused learning experience. The program features a comprehensive and practical curriculum covering cybersecurity fundamentals, ethical hacking, penetration testing, network security, cloud security, incident response, and risk management. Through hands-on training, real-world projects, and exposure to industry-standard tools and techniques, participants gain the skills and confidence required to succeed in today's rapidly evolving cybersecurity landscape. Graduates are well-equipped to pursue high-demand cybersecurity roles and build successful careers in the digital security industry.

Why Are Cybersecurity and Ethical Hacking Important?



Protecting Sensitive Information



Preventing Financial Losses



Enhancing Business Continuity



Boosting Customer Trust



Compliance with Regulations



Mitigating Evolving Threats



Cyber Security and Ethical Hacking Job

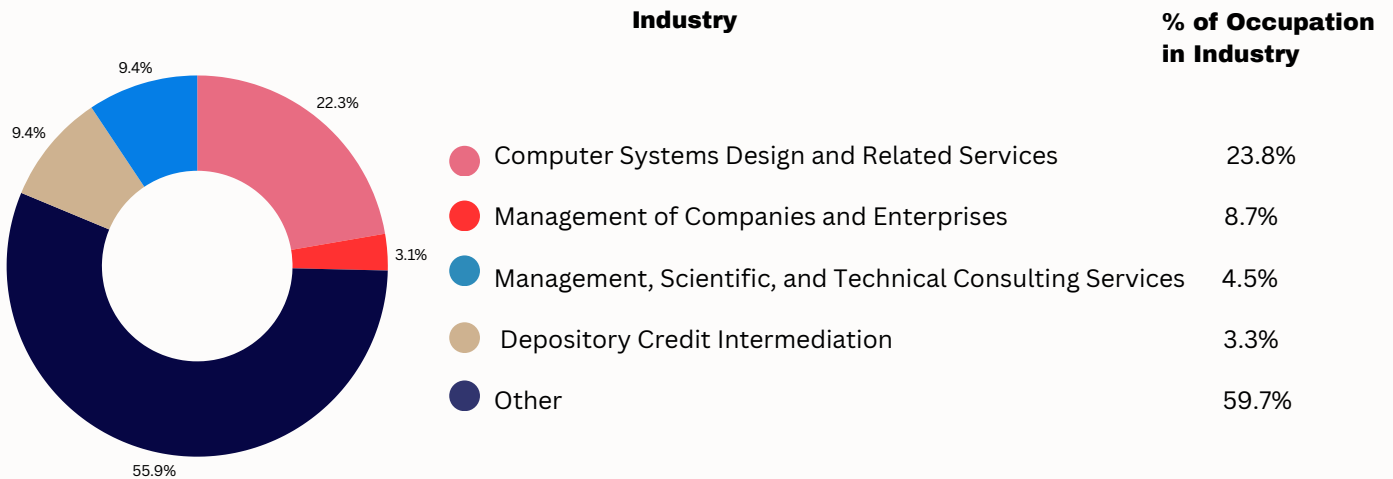
The Cybersecurity and Ethical Hacking job market is expanding rapidly due to increasing digital threats and technological advancements. Here's an overview of projected job trends and demand from 2025 to 2030.

Global Job Growth: The demand for cybersecurity professionals is set to grow significantly. By 2024, an estimated 3.5 million cybersecurity job openings are expected globally, reflecting a critical shortage of skilled workers. The U.S. market alone anticipates a 32% increase in roles such as information security analysts by 2032.

Salary Trends: Cybersecurity continues to be one of the highest-paying technology domains. As organizations invest more in protecting digital assets and sensitive information, professionals with cybersecurity and ethical hacking skills can expect strong earning potential and career stability.

Emerging Roles and Skills: New opportunities are emerging in areas such as Ethical Hacking, Penetration Testing, Cloud Security, AI Security, Threat Intelligence, and Security Operations. Demand for professionals with expertise in advanced security technologies continues to rise.

Regional Opportunities: The cybersecurity talent gap remains a global challenge, with strong demand across North America, Europe, Asia-Pacific, and the Middle East. Organizations worldwide are actively seeking qualified cybersecurity professionals to strengthen their security posture and combat evolving cyber threats.



PROGRAM HIGHLIGHTS

This 6-month program is uniquely designed by Sky States, Microsoft SC-900, and industry leaders to help you learn exactly what the job market demands.



Industry-recognized certificate from Microsoft SC-900 and Sky States



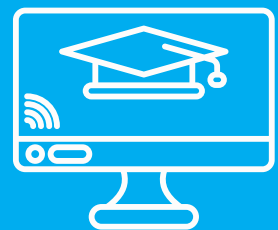
100% Job Placement Assistance through our in-house recruitment agency with over 250 hiring partners



Practical skills that match current industry demands and help professionals succeed in real-world job roles.



Hands-on Training and Industry-Grade Capstone Projects



Designed by leading academic and industry experts in collaboration with Microsoft

PROGRAM BENEFITS



Certificate/Credentials
Advanced Data Science & Microsoft SC-900 Completion Certificate and Industry-Recognized Certificate from Microsoft



Curriculum
Live interactive sessions on the latest AI trends and emerging technologies.



Practical Knowledge
Live interactive sessions on the latest AI trends, such as



Hands on Projects
Capstone from various domains and industry relevant projects



Support and Guidance Core curriculum delivered through live online classes by industry experts and Microsoft-certified professionals.



Personalised Attention
Capstone projects from various domains and industry-relevant projects.



Doubt Clearing Sessions
24x7 subject matter expert support for your technical and non-technical queries.



Immersive Learning
Experience a unique learning ecosystem designed to provide an offline-like immersive learning experience.



Course Curriculum

Module 1: Introduction to Cyber Security

Introduction to Cyber Security and Ethical Hacking

- Basics of Cyber Security and Threat Landscape
- Ethical Hacking Concepts and Types of Hackers
- Phases of Ethical Hacking
- Security and Risk management

Module 2: Networking Fundamentals for Cyber Security

Microsoft Ransomware Best Practices

- OSI and TCP/IP Models
- IP Addressing and Subnetting
- Networking Protocols (HTTP, DNS, FTP, etc.)
- Firewalls and IDS/IPS Basics
- Packet Analysis with Wireshark
- Networking and devices
- Proxy and vpn

Module 3 : Linux Fundamentals

- Basics of Linux Operating System
- Setting Up the Lab Environment
- Linux File System and Directory Structure
- Common Linux Commands for Cybersecurity Tasks
- Managing Users, Permissions, and Processes
- Shell Scripting Basics

Module 4: Reconnaissance and Footprinting

- Active and Passive Reconnaissance
- Information Gathering Tools
- Network Scanning with Nmap for networking and devices
- Identifying Open Ports and Services
- OSINT (Open-Source Intelligence)

Module 5: Vulnerability Analysis

- Vulnerability Assessment Methodologies
- Tools for Vulnerability Scanning (Nessus, ZAP)
- Identifying CVEs and Exploits
- Analyzing Vulnerability Reports

Module 6: System Hacking

- Password Cracking Techniques
- Privilege Escalation on Windows and Linux
- Backdoors and Trojans
- Anti-Forensics Techniques

Module 7: Web Application Security

- OWASP Top 10 Vulnerabilities, Juice Shop, and DVWA
- Exploiting SQL Injection
- Cross-Site Scripting (XSS) and CSRF Attacks
- Tools for Web Security Testing (Burp Suite, SQLmap)

Module 8: Wireless Network Security

- Wireless Network Standards and Protocols
- Capturing and Cracking Wireless Traffic
- WPA/WPA2 Security Testing with Tools
- Securing Wireless Networks

Module 9: Penetration Testing Methodologies

- Penetration Testing Planning and Scoping
- Reporting and Documentation
- Real-World Penetration Testing Simulations Module



Module 10 : Advanced Topics in Cyber Security

- Cloud Security and Common Vulnerabilities
- IoT Security Threats and Countermeasures
- Basics of Threat Hunting and Mitigation

Module 11: Capstone Project

The Capstone Project allows learners to apply all the concepts, tools, and techniques learned throughout the course. Students will be tasked with performing an end-to-end penetration test in a simulated environment, including reconnaissance, vulnerability scanning, exploitation, and reporting. This hands-on project helps strengthen practical skills and prepares participants for real-world cybersecurity scenarios.



100% PLACEMENTS ASSISTANCE



Dedicated Placement Team

Dedicated coordinators assist students with job searches and provide personalized support. Leverage our network of over 250 hiring partners to connect with potential employers.



Leadership Skill Development Sessions

Recurring training and mentoring sessions with industry experts to help learners develop interpersonal and leadership skills.



1-on-1 Career Mentoring Sessions

One-on-one career mentoring sessions to help learners develop the right skills, mindset, and attitude to secure their dream job.



Exhaustive Interview Preparation

Expert tips, sample interview questions, mock interviews, and constructive feedback from industry experts to help learners gain hands-on experience in technical rounds, HR rounds, and more.



Job Search Assistance & Job Feeds

Gain access to exclusive job portals featuring opportunities from our network of hiring partners. Receive personalized job alerts based on your skills, qualifications, and career interests.



Profile Building Assistance

A dedicated career coach helps learners create attractive and professional resumes and optimize their LinkedIn profiles.

OUR TOP RECRUITERS

accenture



verizon

Tech Mahindra

Alphabet

amazon

Honeywell



IBM

KPMG



Microsoft

SAMSUNG



CISCO

Apple

intel



Walmart

OUR ALUMNI WORK AT

Capgemini

Cognizant

Deloitte



Tech Mahindra

Alphabet

amazon

Honeywell



ADP

KPMG



Humana

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HEALTHCARE

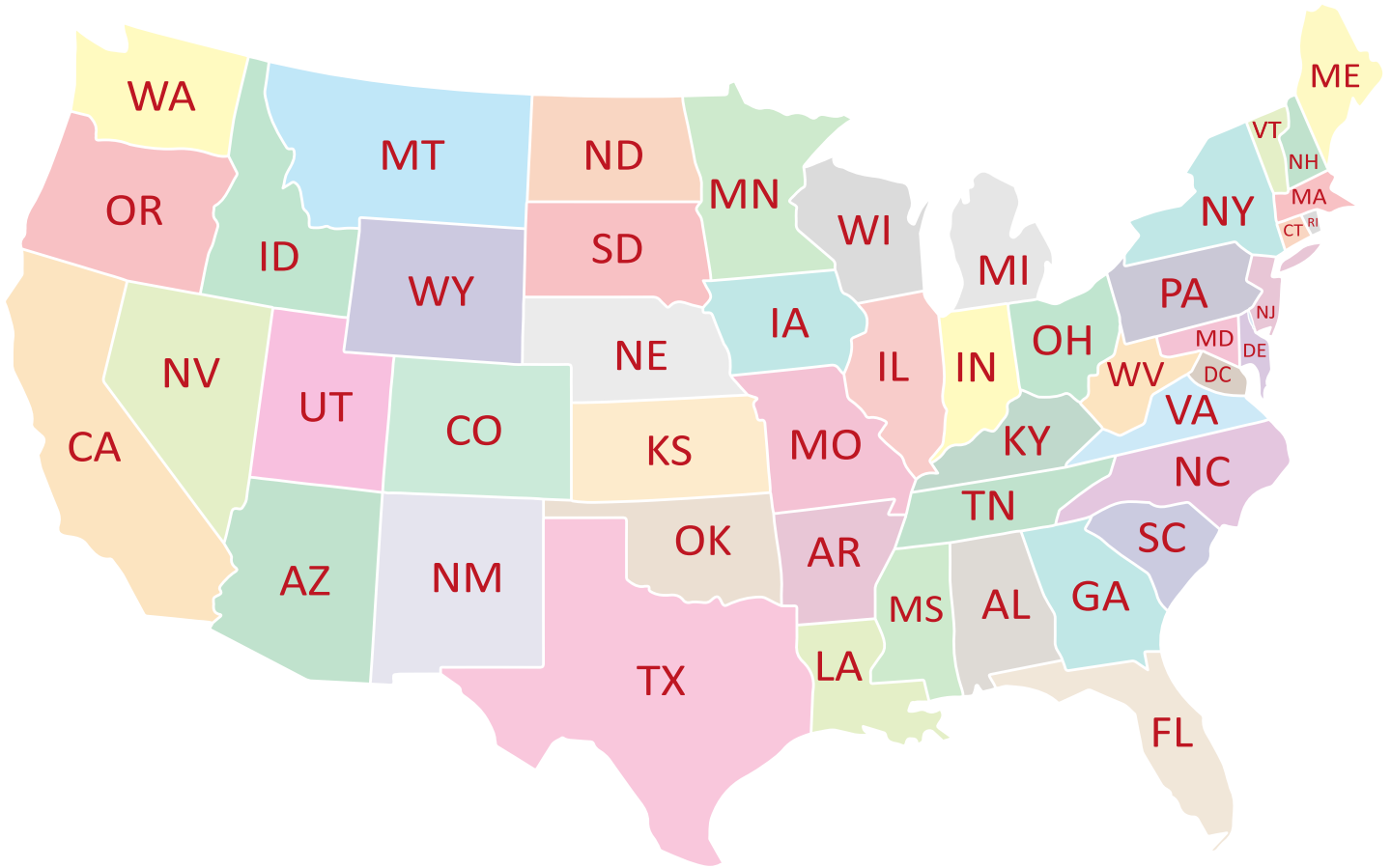
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We are the world's best online bootcamp providing Data Science & AI and Cyber Security & Ethical Hacking. Our e-learning platform offers comprehensive Programs designed to empower individuals with the skills and expertise necessary to thrive in these cutting-edge fields. With expertly crafted content, interactive lessons, and hands-on projects, we ensure that you gain a deep understanding of data science and AI concepts. Whether you're a beginner or a seasoned professional, Sky States is committed to equipping you with the tools and knowledge needed to succeed in this ever-evolving, data-driven landscape. Explore our Programs today and embark on your journey to mastery in data science and artificial intelligence.

Sky States

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