



# Cyber Security & Ethical Hacking

**Advance Certification Program  
in Collaboration with**







## About The Program

Sky States, in partnership 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 leading technology company offering a wide range of technology and consulting services. With an annual R&D budget exceeding \$20 billion, Microsoft continuously drives innovation in cybersecurity and technology. The company has earned numerous prestigious accolades, including three Turing Awards, 10 US National Medals of Technology and Innovation, and 10 US National Medals of Science.


In partnership with Microsoft, Sky States offers a best-in-class cybersecurity & ethical hacking program, providing students with a cutting-edge applied learning experience. This program delivers an industry-relevant curriculum, equipping students with the skills needed to excel in cybersecurity, ethical hacking, penetration testing, and risk management. With hands-on training and real-world scenarios, graduates are well-prepared for top cybersecurity job roles in today's fast-evolving digital landscape.



# 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

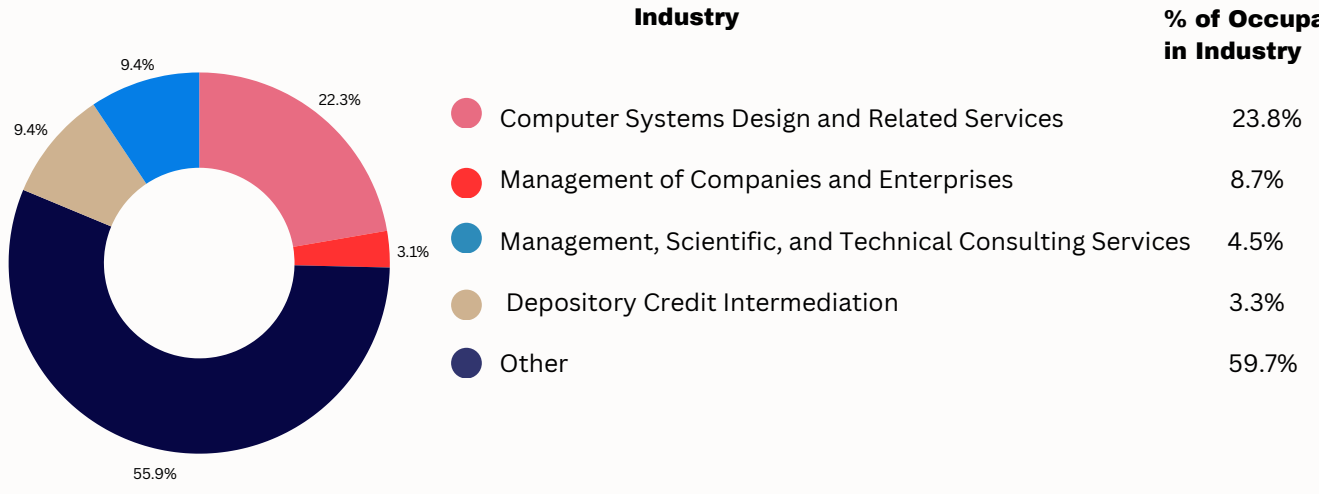
**The Cybersecurity and Ethical hacking :** job market is expanding rapidly due to increasing digital threats and technological advancements. Here's an overview of projected job trends and demand from 2025 to 2030

**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:** The median annual wage for cybersecurity roles, like information security analysts, is projected to reach \$112,000 in 2024, driven by high demand and the skills gap. This trend underscores the lucrative nature of cybersecurity careers

**Emerging Roles and Skills:** New positions such as AI security specialists and quantum computing security analysts are in demand as industries adopt advanced technologies. Cloud security and mobile network protection are also gaining prominence

**Regional Disparities:** The workforce gap is most pronounced in the Asia-Pacific region, with a shortage of 2.6 million professionals as of 2023. Other regions, such as Latin America, have shown improvement but still face significant shortages





## PROGRAM HIGHLIGHTS

**This 6-months Program is uniquely designed by Sky States , Microsoft SC 100 and industry leaders to help you learn exactly what the job market demands.**



**Industry-recognized  
certificate from Microsoft  
SC 100 and Sky States**



**100% Job Placement 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 program and  
Industry-Grade Capstone  
Projects**



**Designed by leading  
academic and industry  
experts along with  
Microsoft**



## PROGRAM BENEFITS



### **Certificate/Credentials**

Advanced Data Science & Microsoft Sc 100 completion certificate and Industry-recognized certificate from Microsoft



### **Curriculum**

Core curriculum delivered in live online classes by industry experts and Microsoft



### **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**

Lifetime access to self-paced learning content through our Learning Management System



### **Personalised Attention**

Small batch sizes to ensure that each student receives personalized attention and tailored instruction



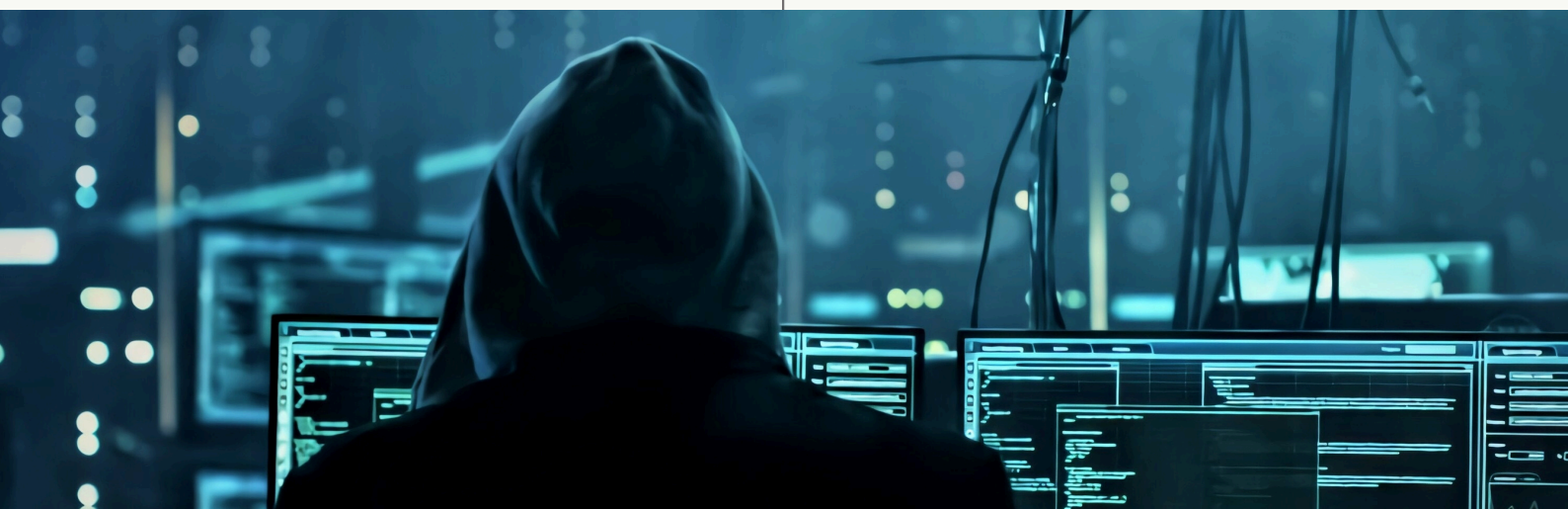
### **Doubt Clearing Sessions**

24x7 subject matter expert support for your technical & non-technical doubts



### **Immersive Learning**

Experience A unique learning ecosystem to give you an offline-like immersive 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 networking and devices
- Identifying Open Ports and Services
- Osint



## 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 dwwa
- 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 Hacking with Tools
- Securing Wireless Networks

## Module 10: Penetration Testing Methodologies

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





## Module 11 : Advanced Topics in Cyber Security

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

## Module 12: Capstone Project

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





# Placement Assistance Program

Sky States, the parent company of Sky States, is dedicated to providing comprehensive job assistance to students who complete their Program. With over a decade of experience in the recruitment industry, we understand the evolving job market and emerging industry requirements. This expertise ensures our Programs are in high demand and tailored to meet industry standards, making students job-ready upon completion.

Our program bridges the gap between education and employment by offering career counseling, resume building, interview preparation, and direct connections to potential employers. We continuously update our curriculum to reflect the latest trends and skills sought by employers, ensuring our students are well-prepared and connected to numerous job opportunities. **We are proud to have an impressive placement rate of 80%**, demonstrating our commitment to student success.

At Sky States, we empower our students with the tools and resources they need to succeed in their careers. Our commitment to their success is unwavering, and we strive to provide an educational experience that opens doors to promising career paths. Through our dedicated efforts, we aim to make a significant impact on the lives of our students, helping them achieve their professional goals and aspirations.





# 100% PLACEMENTS ASSISTANCE



## Dedicated Placement Team

Assign dedicated coordinators to assist in job searches and provide personalized support. Leverage a network of over 250 hiring partners to connect students with potential employers.



## Leadership Skill Development Sessions

Recurring training sessions with experts to help learners develop interpersonal & Leadership Skills.



## 1-on-1 Career Mentoring Sessions

One-on-one Career develop the right skills and attitude to secure a dream job.



## Exhaustive Interview Preparation

Expert tips, sample interview questions, mock interviews with constructive feedback from industry experts to gain hands on experience of technical rounds, HR round, and more.



## Job Search Assistance & Job Feeds

Grant access to exclusive job portals with listings from will provide expert tips on ShefSolutions Inc.'s network of hiring partners. Send personalized job alerts based on students' skills and career interests.



## Profile Building Assistance

A dedicated career coach shows how to create an attractive, relevant resume and LinkedIn profile.



## OUR TOP RECRUITERS



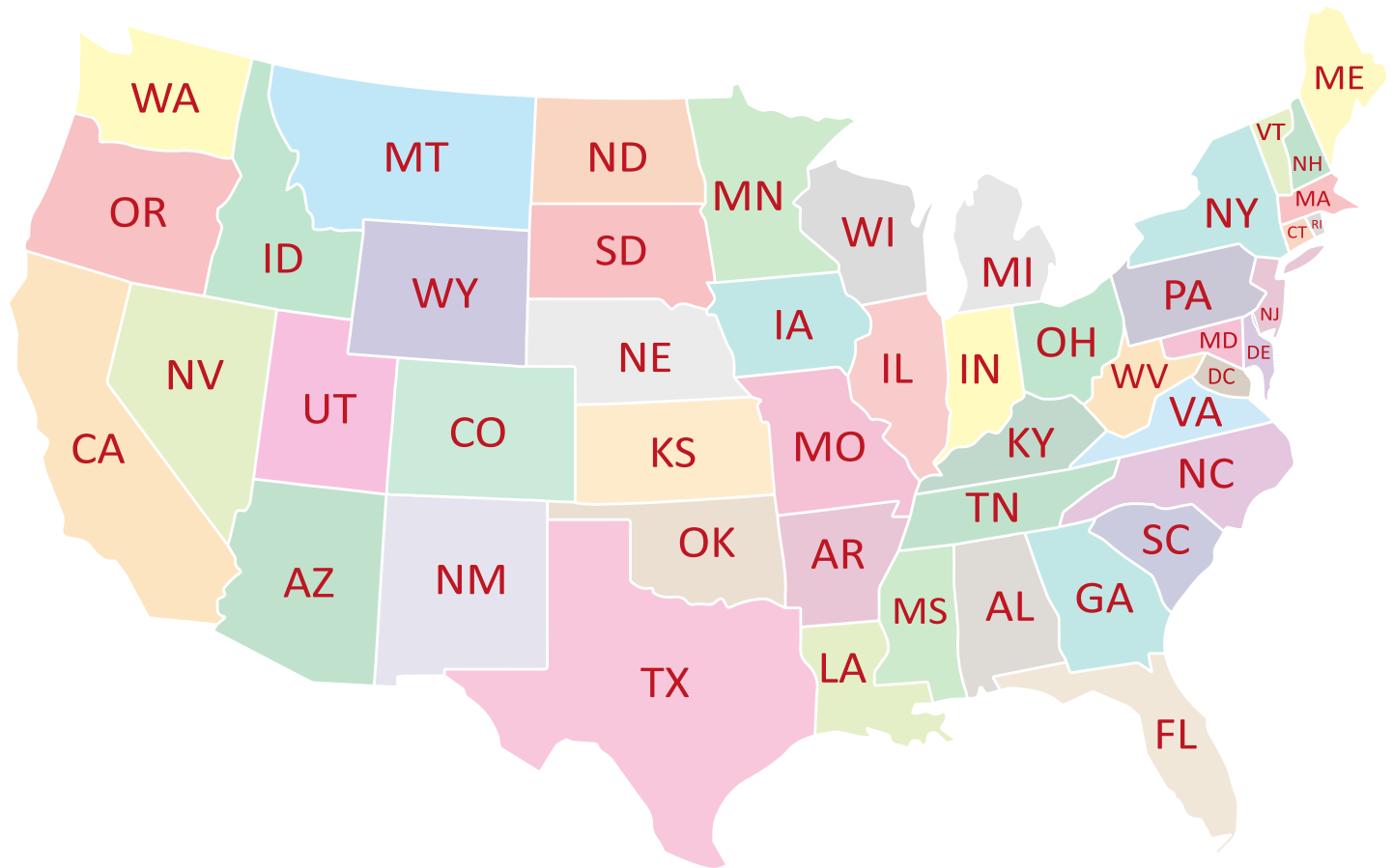
## OUR ALUMNI WORK AT



# Certification







For admissions, contact  
**1 (888) 810-2434**  
[info@skystates.us](mailto:info@skystates.us)



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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