NIGHTWING

NIGHTWING LABS
OFFENSIVE & DEFENSIVE
TRADECRAFT

THE CYBERSECURITY CHALLENGE

Cybersecurity is one of the most pressing priorities for organizations today. Recruiting and retaining experienced staff to navigate the hostile landscape has become increasingly challenging due to the ongoing skills shortage.

PROGRAM COVERA

Nightwing Labs Offensive and Defensive Tradecraft training curricula feature comprehensive programs designed to create a new generation of cybersecurity technicians, able to implement the necessary technical skills to secure the future of our organizations' networks.

CYBER RESEARCH & DEFENSE PROGRAM COVERAGE
Learning Pathways are designed to prepare you for a range of roles including:
- Cybersecurity Specialist
- Reverse Engineer
- Security Operation Center Analyst
- Incident Response Manager
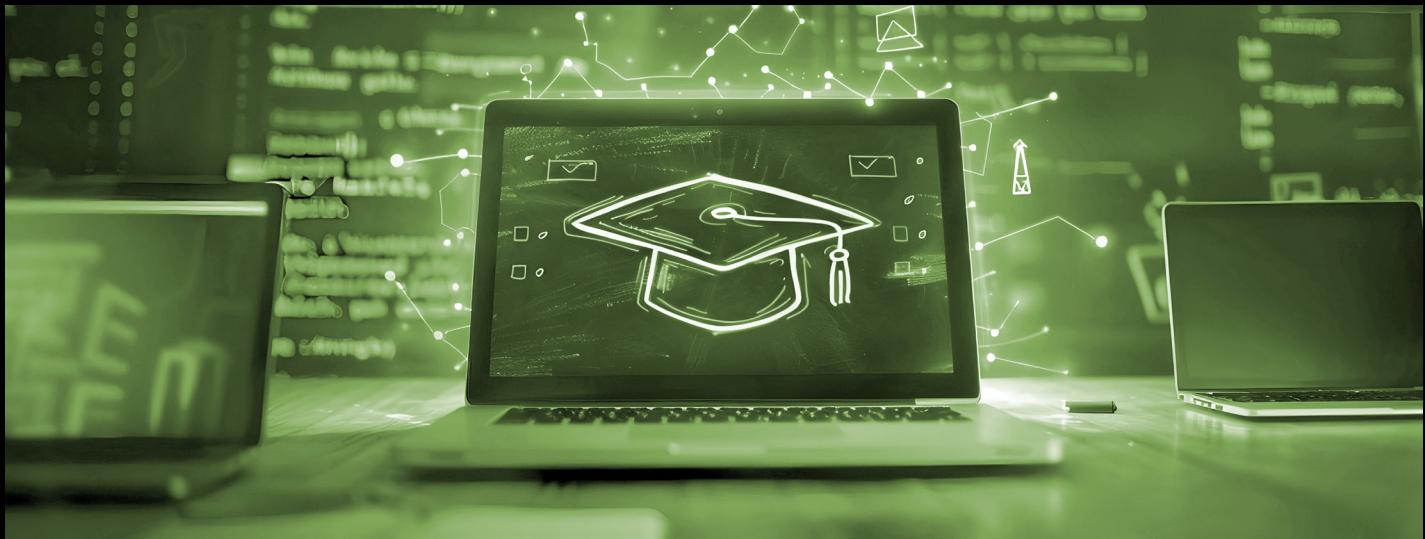
What does the program cover?
- Cybersecurity Fundementals
- Cybersecurity Risk & INformation Assurance
- Linux Fundementals & Security
- Windows Fundementals & Security
- Network Security
- Threat Hunting & Intelligece
- Machine Learning
- Incident Response
- Computer Forensics

DEVELOPMENT LEVELS

- CORE (Introduction)
- CORE II (Intermediate)
- PATHFINDER
- MASTER
- ELITE

ABOUT THE PROGRAM

Skills Bootcamps are flexible courses of up to 16 weeks, giving people the opportunity to build up sector specific skills and fast track to an interview with a local employer. Our flexible options are designed to encourage applications from candidates who may have other commitments and time limitations.

LEARNING PATHWAY 1 — FULL TIME

• 25 days of classroom training delivered in block formats of 5 days

• 80+ hours of online learning

• In-person & virtual mentoring

LEARNING PATHWAY 2 — PART TIME

• Virtual and instructor lead training delivered on evenings and weekends for a total of 16 days

• 100+ hours of online learning
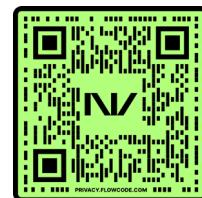
• In-person & virtual mentoring

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THE CYBERSECURITY CHALLENGE

Nightwing Labs delivers tailorable offensive cyber training focused in the areas of Vulnerability Research, Binary Reverse Engineering, Computer Network Operations (CNO) Development, Cyber Vulnerability Assessment, and DejaVM Infrastructure Development.

ABOUT THE PROGRAM

NOL training options are flexible, tailored courses, featuring:

- Instructor led, hands-on training combining internally developed content and materials from commercial partners (virtual or in-person)
- Asynchronous On-Demand Canvas LMS training
- Tailorable curriculum to meet student and mission needs
- Custom curriculum development

The curriculum teaches students to approach cybersecurity from the perspective of a hacker, and how to use that knowledge of offensive tactics to better inform their approach to cyber defense.

Along with specific offerings. courses are geared to enforce fundamentals – including teaching the students about best coding practices, and how to use tools like Git, Bitbucket, and Jira to store their code and manage their work. This allows participants to become more successful on their future programs.

LEARNING PATHWAYS

Learning Pathways are designed to prepare you for a range of roles including:

- VULNERABILITY RESEARCHER
- CNO DEVELOPER
- REVERSE ENGINEER
- TEST ENGINEER

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PROGRAM COVERAGE

WHAT DOES THE PROGRAM COVER?

Platform/OS Internals
- Windows Internal Architecture
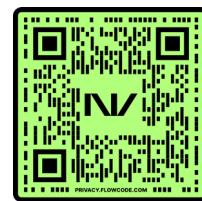- Windows Kernel Internals
- MacOS Control Bypass

CNO Development
- 2-Week Fundamentals Course
- Windows Kernel Rootkits
- Linux Kernel Internals and Development

Vulnerability Research
- 2-Week Fundamentals Course
- Linux Kernel Exploitation and Rootkits
- Windows User Mode Exploit Development
- Advanced Windows Exploitation

Reverse Engineering
- 2-Week Fundamentals Course
- Windows Malware Techniques

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