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CYBER SKYLINE

The National Cyber League
A Community Where Cybersecurity Is a Passion

Austin Holm

NCL Fall 2025 Individual Game Scouting Report

Dear Austin Holm,

Thank you for participating in the National Cyber League (NCL) Fall 2025 Season! Our goal is to prepare the next generation of cybersecurity professionals, and your participation is helping achieve that goal.

The NCL was founded in May 2011 to provide an ongoing virtual training ground for collegiate students to develop, practice, and validate their cybersecurity skills in preparation for further learning, industry certifications, and career readiness. The NCL scenario-based challenges were designed around performance-based exam objectives of CompTIA certifications and are aligned to the National Initiative for Cybersecurity Education (NICE) Cybersecurity Workforce Framework published by the National Institute of Standards and Technology (NIST).

As you look to a future career in cybersecurity, we hope you find this report to be valuable in both validating skills and identifying areas for improvement across the nine NCL skills categories. You can use this NCL Scouting Report to:

- Validate your skills to employers in any job application or professional portfolio;
- Show case your achievements and strengths by including the Score Card view of your performance as part of your résumé or simply sharing the validation link so that others may view the detailed version of this report.

The NCL Fall 2025 Season had 8,520 students/players and 538 faculty/coaches from more than 490 two- and four-year schools & 200 high schools across all 50 U.S. states registered to play. The Individual Game Capture the Flag (CTF) event took place from October 24 through October 26. The Team Game CTF event took place from November 7 through November 9. The games were conducted in real-time for students across the country.

NCL is powered by Cyber Skyline's cloud-based skills evaluation platform. Cyber Skyline hosted the scenario-driven cybersecurity challenges for players to compete and track their progress in real-time.

To validate this report, please access: cyberskyline.com/report/4279X542MQY1



CompTIA. Based on the performance detailed in this NCL Scouting Report, you have earned **11 hours** of Continuing Education Units (CEUs) as approved by CompTIA. You can learn more about the NCL - CompTIA alignment via nationalcyberleague.org/partners.

Congratulations for your participation in the NCL Fall 2025 Individual Game! We hope you will continue to develop your knowledge and skills and make meaningful contributions as part of the Information Security workforce!

Dr. David Zeichick
NCL Commissioner



NATIONAL CYBER LEAGUE SCORE CARD

NCL FALL 2025 INDIVIDUAL GAME

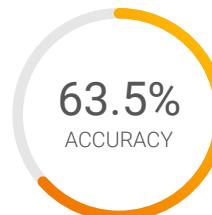
NATIONAL RANK
603RD PLACE
OUT OF 7873
PERCENTILE
93RD

YOUR TOP CATEGORIES

LOG ANALYSIS
98TH PERCENTILE

OPEN SOURCE
INTELLIGENCE
97TH PERCENTILE

ENUMERATION &
EXPLOITATION
93RD PERCENTILE



Average: 61.0%

[cyberskyline.com/report](https://cyberskyline.com/report/4279X542MQY1)
ID: 4279X542MQY1



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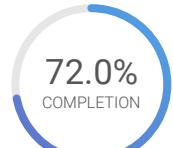
Austin Holm

NCL Fall 2025 Individual Game

The NCL Individual Game is designed for student players nationwide to compete in realtime in the categories listed below. The Individual Game evaluates the technical cybersecurity skills of the individual, without the assistance of others.

603^{RD PLACE}
OUT OF 7873
NATIONAL RANK

1930^{POINTS OUT OF 3000}
PERFORMANCE SCORE



93rd National Percentile

Average: 974.0 Points

Average: 61.0%

Average: 40.1%

Cryptography

210^{POINTS OUT OF 355}

52.0%
ACCURACY

COMPLETION:

65.0%

Identify techniques used to encrypt or obfuscate messages and leverage tools to extract the plaintext.

Enumeration & Exploitation

160^{POINTS OUT OF 300}

31.6%
ACCURACY

COMPLETION:

75.0%

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in code and compiled binaries.

Forensics

75^{POINTS OUT OF 300}

75.0%
ACCURACY

COMPLETION:

40.0%

Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.

Log Analysis

300^{POINTS OUT OF 300}

63.6%
ACCURACY

COMPLETION:

100.0%

Utilize the proper tools and techniques to establish a baseline for normal operation and identify malicious activities using log files from various services.

Network Traffic Analysis

150^{POINTS OUT OF 300}

56.3%
ACCURACY

COMPLETION:

64.3%

Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.

Open Source Intelligence

365^{POINTS OUT OF 385}

64.3%
ACCURACY

COMPLETION:

96.4%

Utilize publicly available information such as search engines, public repositories, social media, and more to gain in-depth knowledge on a topic or target.

Password Cracking

260^{POINTS OUT OF 360}

94.4%
ACCURACY

COMPLETION:

73.9%

Identify types of password hashes and apply various techniques to efficiently determine plaintext passwords.

Scanning & Reconnaissance

210^{POINTS OUT OF 300}

81.3%
ACCURACY

COMPLETION:

86.7%

Identify and use the proper tools to gain intelligence about a target including its services and potential vulnerabilities.

Web Application Exploitation

100^{POINTS OUT OF 300}

66.7%
ACCURACY

COMPLETION:

16.7%

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in online services.

Note: Survey module (100 points) was excluded from this report.



Cryptography Module

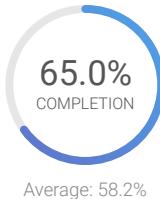
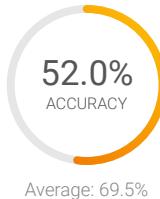
Identify techniques used to encrypt or obfuscate messages and leverage tools to extract the plaintext.

975 TH PLACE
OUT OF 7873
NATIONAL RANK

210 POINTS OUT OF
355
PERFORMANCE SCORE

88th National
Percentile

Average: 157.0 Points



Baking Soda (Easy)

50 POINTS OUT OF
50

100.0%
ACCURACY

COMPLETION:

Analyze and obtain the plaintext from text encoded with common number bases.

ROTten domains (Easy)

30 POINTS OUT OF
45

18.2%
ACCURACY

COMPLETION:

Analyze and obtain plaintext for messages encrypted with a shift cipher.

Convenience (Easy)

60 POINTS OUT OF
60

100.0%
ACCURACY

COMPLETION:

Analyze and obtain the plaintext from text encrypted with Vigenère cipher.

01101011 01100101 01111001 (Medium)

40 POINTS OUT OF
40

100.0%
ACCURACY

COMPLETION:

Decrypt a message using an XOR key.

Squirtle (Medium)

30 POINTS OUT OF
60

50.0%
ACCURACY

COMPLETION:

Analyze and exploit a DES encryption implementation using known weak keys.

Temet Nosce (Hard)

0 POINTS OUT OF
100

0.0%
ACCURACY

COMPLETION:

Exploit a flaw in AES encryption to decrypt text with an unknown secret key.



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Enumeration & Exploitation Module

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in code and compiled binaries.

570 TH PLACE
OUT OF 7873
NATIONAL RANK

160 POINTS OUT OF
300
PERFORMANCE SCORE



93rd National
Percentile

Average: 98.2 Points

Average: 60.4%



Average: 49.4%

Deno Finds a Way (Easy)

100 POINTS OUT OF
100

100.0%
ACCURACY

COMPLETION:

100.0%

Review source code and exploit a command injection vulnerability to escalate privileges.

Stacked (Medium)

60 POINTS OUT OF
100

13.3%
ACCURACY

COMPLETION:

66.7%

Perform an HTTP-triggered stack overflow to retrieve critical information from the server.

Sewer System (Hard)

0 POINTS OUT OF
100

0.0%
ACCURACY

COMPLETION:

0.0%

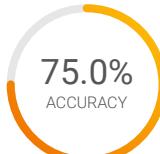
Exploit a race condition in software to return protected data.

Forensics Module

Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.

1235 TH PLACE
OUT OF 7873
NATIONAL RANK

75 POINTS OUT OF
300
PERFORMANCE SCORE



85th National
Percentile

Average: 115.2 Points

Average: 45.9%



Average: 48.4%

Four & Six (Easy)

75 POINTS OUT OF
100

75.0%
ACCURACY

COMPLETION:

75.0%

Use a forensics tool to examine unallocated space for files.

This Bytes (Medium)

0 POINTS OUT OF
100

0.0%
ACCURACY

COMPLETION:

0.0%

Research JPEG specifications to repair an image.

Stage Left (Hard)

0 POINTS OUT OF
100

0.0%
ACCURACY

COMPLETION:

0.0%

Fix a corrupted SQLite database file and analyze the tables.



Log Analysis Module

Utilize the proper tools and techniques to establish a baseline for normal operation and identify malicious activities using log files from various services.

198 TH PLACE
OUT OF 7873
NATIONAL RANK

300 POINTS OUT OF
300
PERFORMANCE SCORE



98th National
Percentile

Average: 160.8 Points

Average: 55.3%

Average: 61.1%

Process This (Easy)

100 POINTS OUT OF
100

60.0%
ACCURACY

COMPLETION:

100.0%

Examine parsed Sysmon JSON process tree logs to determine a chain of events.

Brute Force (Medium)

100 POINTS OUT OF
100

62.5%
ACCURACY

COMPLETION:

100.0%

Identify a brute force attack by analyzing patterns of malicious actor behavior in web server logs.

Stolen Swipe (Hard)

100 POINTS OUT OF
100

75.0%
ACCURACY

COMPLETION:

100.0%

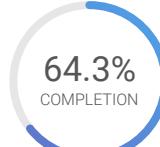
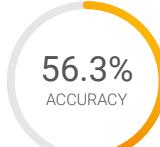
Parse and correlate ATM and EMV Field 55 logs (ISO 8583 standard) to identify a fraudulent transaction.

Network Traffic Analysis Module

Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.

1070 TH PLACE
OUT OF 7873
NATIONAL RANK

150 POINTS OUT OF
300
PERFORMANCE SCORE



87th National
Percentile

Average: 112.2 Points

Average: 51.6%

Average: 45.0%

RMM Tool (Easy)

100 POINTS OUT OF
100

50.0%
ACCURACY

COMPLETION:

100.0%

Analyze DNS packet requests and responses to identify a suspicious download.

Drive-by Download (Medium)

50 POINTS OUT OF
100

66.7%
ACCURACY

COMPLETION:

66.7%

Identify details of a drive-by-download attack and de-obfuscate JavaScript.

The Insider (Hard)

0 POINTS OUT OF
100

0.0%
ACCURACY

COMPLETION:

0.0%

Reconstruct a file from UDP packets and decode VBA script.

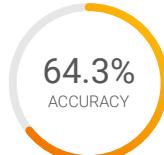


Open Source Intelligence Module

Utilize publicly available information such as search engines, public repositories, social media, and more to gain in-depth knowledge on a topic or target.

266TH PLACE
OUT OF 7873
NATIONAL RANK

365 POINTS
OUT OF
385
PERFORMANCE SCORE



97th National
Percentile

Average: 213.9 Points

Average: 58.5%

Average: 65.3%

Rules of Conduct (Easy)

30 POINTS
OUT OF
30

100.0%
ACCURACY

COMPLETION:

100.0%

Introductory challenge on acceptable conduct during NCL.

Cooking Breakfast (Easy)

45 POINTS
OUT OF
45

100.0%
ACCURACY

COMPLETION:

100.0%

Parse Chef (esolang) code to determine what input it requires.

NotPetya (Easy)

100 POINTS
OUT OF
100

80.0%
ACCURACY

COMPLETION:

100.0%

Gather key information on NotPetya malware.

Flamed (Medium)

55 POINTS
OUT OF
55

66.7%
ACCURACY

COMPLETION:

100.0%

Use open source tools to find patterns between GPS locations.

Material (Medium)

80 POINTS
OUT OF
80

62.5%
ACCURACY

COMPLETION:

100.0%

Use the EDGAR database to filter 8-K filings.

I Cee Stuff (Hard)

55 POINTS
OUT OF
75

30.8%
ACCURACY

COMPLETION:

80.0%

Use ICS/OT OSINT tools do passive recon on infrastructure.

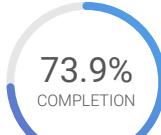


Password Cracking Module

Identify types of password hashes and apply various techniques to efficiently determine plaintext passwords.

842ND PLACE
OUT OF 7873
NATIONAL RANK

260 POINTS
OUT OF
360
PERFORMANCE SCORE



90th National Percentile

Average: 163.6 Points

Average: 86.3%

Average: 50.2%

Hashing (Easy)

40 POINTS
OUT OF
40

80.0%
ACCURACY

COMPLETION: **100.0%**

Generate hashes for passwords with the MD5, NTLM, and SHA256 hashing algorithms.

Crack You One More Time (Easy)

50 POINTS
OUT OF
50

100.0%
ACCURACY

COMPLETION: **100.0%**

Crack MD5 and SHA1 password hashes using password cracking tools.

Oph the Dome (Easy)

60 POINTS
OUT OF
60

100.0%
ACCURACY

COMPLETION: **100.0%**

Crack Windows NTLM password hashes using rainbow tables.

Redacted (Medium)

50 POINTS
OUT OF
50

100.0%
ACCURACY

COMPLETION: **100.0%**

Crack an insecure password for a protected PDF file and recover redacted information.

MasKquerade (Medium)

60 POINTS
OUT OF
60

100.0%
ACCURACY

COMPLETION: **100.0%**

Build a wordlist or pattern rule to crack password hashes of a known pattern.

Enterprise (Hard)

0 POINTS
OUT OF
100

0.0%
ACCURACY

COMPLETION: **0.0%**

Build a wordlist to crack passwords not found in common wordlists.



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Scanning & Reconnaissance Module

Identify and use the proper tools to gain intelligence about a target including its services and potential vulnerabilities.

806TH PLACE
OUT OF 7873
NATIONAL RANK

210 POINTS OUT OF
300
PERFORMANCE SCORE



90th National
Percentile

Average: 152.1 Points

Average: 72.9%

Average: 58.2%

Portscan (Easy)

70 POINTS OUT OF
100

100.0%
ACCURACY

COMPLETION:

80.0%

Use nmap to scan a machine and discover open ports.

Chain (Medium)

100 POINTS OUT OF
100

62.5%
ACCURACY

COMPLETION:

100.0%

Enumerate SMB to locate and retrieve a private SSH key.

I'm TXT (Hard)

40 POINTS OUT OF
100

100.0%
ACCURACY

COMPLETION:

80.0%

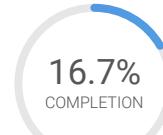
Enumerate a DNS service to discover hidden files in DNS TXT records.

Web Application Exploitation Module

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in online services.

1643RD PLACE
OUT OF 7873
NATIONAL RANK

100 POINTS OUT OF
300
PERFORMANCE SCORE



80th National
Percentile

Average: 120.0 Points

Average: 73.0%

Average: 31.8%

Browser (Easy)

100 POINTS OUT OF
100

100.0%
ACCURACY

COMPLETION:

100.0%

Exploit a client-side validation weakness in a web application.

Ersatz Motel (Medium)

0 POINTS OUT OF
100

0.0%
ACCURACY

COMPLETION:

0.0%

Perform a SQL Injection Union attack to retrieve information.

Micro Fail (Hard)

0 POINTS OUT OF
100

0.0%
ACCURACY

COMPLETION:

0.0%

Access sensitive files on a webserver by chaining together a prototype pollution attack with an XML external entity injection attack.



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