



# NCL Spring 2022 Team Game Scouting Report

Dear Ethan Brinks (Team "RedTeam@MTU"),

Thank you for participating in the National Cyber League (NCL) 2022 Spring 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 2022 Spring Season had 6,610 students/players and 468 faculty/coaches from more than 500 two- and four-year schools & 80 high schools across all 50 U.S. states registered to play. The Individual Game Capture the Flag (CTF) event took place from April 8 through April 10. The Team Game CTF event took place from April 22 through April 24. 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/R3W5TY1A575E](https://cyberskyline.com/report/R3W5TY1A575E)

**CompTIA.** Based on the the performance detailed in this NCL Scouting Report, you have earned **21 hours** of Continuing Education Units (CEUs) as approved by CompTIA. You can learn more about the NCL - CompTIA alignment via [nationalcyberleague.org/comptia](https://nationalcyberleague.org/comptia).

Congratulations for your participation in the NCL 2022 Spring Team Game! We hope you will continue to develop your knowledge and skills and make meaningful contributions as part of the Information Security workforce!

David Zeichick  
NCL Commissioner



## NATIONAL CYBER LEAGUE SCORE CARD

NCL 2022 SPRING TEAM GAME

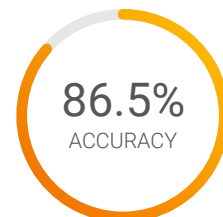
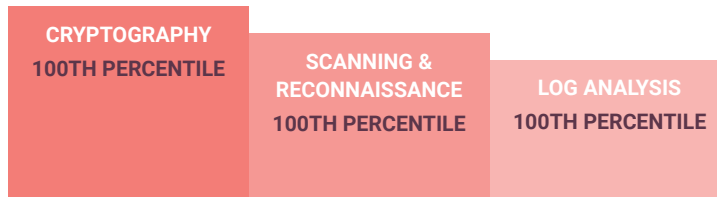
### YOUR TOP CATEGORIES

### NATIONAL RANK

**6<sup>TH</sup> PLACE  
OUT OF 3658**

### PERCENTILE

**100<sup>TH</sup>**



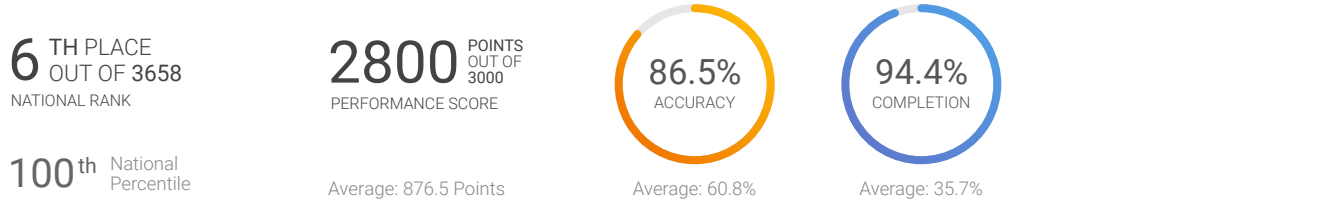
Average: 60.8%

[cyberskyline.com/report](https://cyberskyline.com/report/R3W5TY1A575E)  
ID: R3W5TY1A575E



# NCL Spring 2022 Team Game

The NCL Team Game is designed for student players nationwide to compete in realtime in the categories listed below. The Team Game promotes camaraderie and evaluates the collective technical cybersecurity skills of the team members.



<b>Cryptography</b>	<b>345</b> POINTS OUT OF 345	<b>100.0%</b> ACCURACY	COMPLETION: <b>100.0%</b>
Identify techniques used to encrypt or obfuscate messages and leverage tools to extract the plaintext.			
<b>Enumeration &amp; Exploitation</b>	<b>370</b> POINTS OUT OF 370	<b>89.5%</b> ACCURACY	COMPLETION: <b>100.0%</b>
Identify actionable exploits and vulnerabilities and use them to bypass the security measures in code and compiled binaries.			
<b>Forensics</b>	<b>280</b> POINTS OUT OF 300	<b>93.3%</b> ACCURACY	COMPLETION: <b>93.3%</b>
Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.			
<b>Log Analysis</b>	<b>270</b> POINTS OUT OF 300	<b>69.2%</b> ACCURACY	COMPLETION: <b>85.7%</b>
Utilize the proper tools and techniques to establish a baseline for normal operation and identify malicious activities using log files from various services.			
<b>Network Traffic Analysis</b>	<b>325</b> POINTS OUT OF 345	<b>76.9%</b> ACCURACY	COMPLETION: <b>95.2%</b>
Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.			
<b>Open Source Intelligence</b>	<b>300</b> POINTS OUT OF 300	<b>85.0%</b> ACCURACY	COMPLETION: <b>100.0%</b>
Utilize publicly available information such as search engines, public repositories, social media, and more to gain in-depth knowledge on a topic or target.			
<b>Password Cracking</b>	<b>310</b> POINTS OUT OF 340	<b>100.0%</b> ACCURACY	COMPLETION: <b>95.8%</b>
Identify types of password hashes and apply various techniques to efficiently determine plaintext passwords.			
<b>Scanning &amp; Reconnaissance</b>	<b>300</b> POINTS OUT OF 300	<b>100.0%</b> ACCURACY	COMPLETION: <b>100.0%</b>
Identify and use the proper tools to gain intelligence about a target including its services and potential vulnerabilities.			
<b>Web Application Exploitation</b>	<b>200</b> POINTS OUT OF 300	<b>85.7%</b> ACCURACY	COMPLETION: <b>75.0%</b>
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.

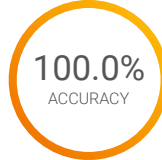


# Cryptography Module

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

**4<sup>TH</sup> PLACE**  
OUT OF 3658  
NATIONAL RANK

**345** POINTS  
OUT OF 345  
PERFORMANCE SCORE



Average: 74.2%



Average: 55.7%

Security Control Assessor  
Secure Software Assessor  
Exploitation Analyst  
Cyber Operator  
Security Architect

**100<sup>th</sup>** National  
Percentile

Average: 116.7 Points

Decoding 1 (Easy)	<b>20</b> POINTS OUT OF 20	<b>100.0%</b> ACCURACY	COMPLETION: <b>100.0%</b>
Decoding 2 (Easy)	<b>20</b> POINTS OUT OF 20	<b>100.0%</b> ACCURACY	COMPLETION: <b>100.0%</b>
Decoding 3 (Medium)	<b>35</b> POINTS OUT OF 35	<b>100.0%</b> ACCURACY	COMPLETION: <b>100.0%</b>
Decoding 4 (Medium)	<b>45</b> POINTS OUT OF 45	<b>100.0%</b> ACCURACY	COMPLETION: <b>100.0%</b>
Decoding 5 (Hard)	<b>100</b> POINTS OUT OF 100	<b>100.0%</b> ACCURACY	COMPLETION: <b>100.0%</b>
Stego (Medium)	<b>50</b> POINTS OUT OF 50	<b>100.0%</b> ACCURACY	COMPLETION: <b>100.0%</b>
Signature (Hard)	<b>75</b> POINTS OUT OF 75	<b>100.0%</b> ACCURACY	COMPLETION: <b>100.0%</b>



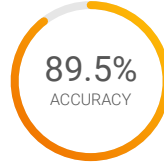


## Enumeration & Exploitation Module

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

**20<sup>TH</sup> PLACE**  
OUT OF 3658  
NATIONAL RANK

**370** POINTS  
OUT OF 370  
PERFORMANCE SCORE



Average: 60.9%



Average: 35.1%

Cyber Operator  
Target Developer  
Exploitation Analyst  
Software Developer  
Systems Security Analyst

**100<sup>th</sup>** National  
Percentile

Average: 99.4 Points

Secure Server (Easy)

**80** POINTS  
OUT OF 80

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

dSafe (Medium)

**90** POINTS  
OUT OF 90

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

Hidden (Hard)

**100** POINTS  
OUT OF 100

**85.7%**  
ACCURACY

COMPLETION: **100.0%**

Speedy (Hard)

**100** POINTS  
OUT OF 100

**85.7%**  
ACCURACY

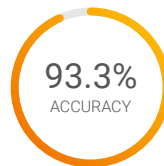
COMPLETION: **100.0%**

## Forensics Module

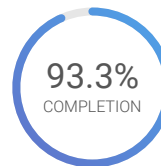
Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.

**12<sup>TH</sup> PLACE**  
OUT OF 3658  
NATIONAL RANK

**280** POINTS  
OUT OF 300  
PERFORMANCE SCORE



Average: 64.8%



Average: 36.8%

Cyber Defense Forensics  
Analyst  
Cyber Crime Investigator  
Cyber Defense Incident  
Responder  
Cyber Defense Analyst

**100<sup>th</sup>** National  
Percentile

Average: 154.7 Points

Leaky (Easy)

**100** POINTS  
OUT OF 100

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

Registry (Medium)

**100** POINTS  
OUT OF 100

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

Dump (Hard)

**80** POINTS  
OUT OF 100

**87.5%**  
ACCURACY

COMPLETION: **87.5%**



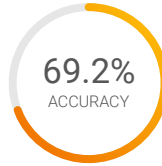


## Log Analysis Module

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

7<sup>TH</sup> PLACE  
OUT OF 3658  
NATIONAL RANK

270 POINTS  
OUT OF 300  
PERFORMANCE SCORE



Cyber Defense Analyst  
Systems Security Analyst  
All-Source Analyst  
Cyber Defense Forensics  
Analyst  
Data Analyst

100<sup>th</sup> National  
Percentile

Average: 106.5 Points

Average: 41.0%

Average: 34.4%

Entertainment (Easy)

100 POINTS  
OUT OF 100

77.8%  
ACCURACY

COMPLETION: 100.0%

Eventful (Medium)

100 POINTS  
OUT OF 100

54.5%  
ACCURACY

COMPLETION: 100.0%

Oddball (Hard)

70 POINTS  
OUT OF 100

83.3%  
ACCURACY

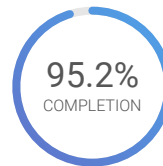
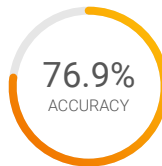
COMPLETION: 62.5%

## Network Traffic Analysis Module

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

40<sup>TH</sup> PLACE  
OUT OF 3658  
NATIONAL RANK

325 POINTS  
OUT OF 345  
PERFORMANCE SCORE



Cyber Defense Analyst  
All-Source Analyst  
Cyber Defense Incident  
Responder  
Target Network Analyst  
Cyber Operator

99<sup>th</sup> National  
Percentile

Average: 138.6 Points

Average: 48.6%

Average: 45.4%

Shell (Easy)

70 POINTS  
OUT OF 70

100.0%  
ACCURACY

COMPLETION: 100.0%

Corp Net (Medium)

80 POINTS  
OUT OF 100

45.5%  
ACCURACY

COMPLETION: 83.3%

Wifi Cracking (Medium)

75 POINTS  
OUT OF 75

100.0%  
ACCURACY

COMPLETION: 100.0%

Stream (Hard)

100 POINTS  
OUT OF 100

100.0%  
ACCURACY

COMPLETION: 100.0%



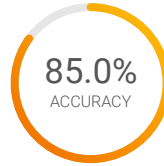


## Open Source Intelligence Module

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

**47<sup>TH</sup> PLACE**  
OUT OF 3658  
NATIONAL RANK

**300** POINTS  
OUT OF 300  
PERFORMANCE SCORE



Average: 63.1%



Average: 77.5%

Systems Security Analyst  
Target Developer  
System Administrator  
Research & Development  
Specialist  
Cyber Intel Planner

**99<sup>th</sup>** National  
Percentile

Average: 182.7 Points

Rules of Conduct (Easy)

**25** POINTS  
OUT OF 25

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

Blockchain (Easy)

**65** POINTS  
OUT OF 65

**71.4%**  
ACCURACY

COMPLETION: **100.0%**

Use online resources to identify stolen funds on the blockchain

Banking (Medium)

**50** POINTS  
OUT OF 50

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

License (Medium)

**60** POINTS  
OUT OF 60

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

Rendezvous (Hard)

**100** POINTS  
OUT OF 100

**50.0%**  
ACCURACY

COMPLETION: **100.0%**



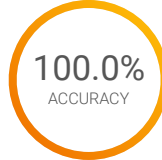


# Password Cracking Module

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

**23** RD PLACE  
OUT OF 3658  
NATIONAL RANK

**310** POINTS  
OUT OF 340  
PERFORMANCE SCORE



Average: 88.2%



Average: 58.5%

Cyber Operator  
Exploitation Analyst  
Systems Security Analyst  
Cyber Defense Incident  
Responder  
Cyber Crime Investigator

**100**<sup>th</sup> National  
Percentile

Average: 157.3 Points

## Cracking 1 (Easy)

Crack MD5 password hashes from a known wordlist

**30** POINTS  
OUT OF 30

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

## Cracking 2 (Easy)

Crack SHA1 password hashes from a known wordlist

**30** POINTS  
OUT OF 30

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

## Cracking 3 (Easy)

Crack Windows NTLM password hashes

**30** POINTS  
OUT OF 30

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

## Cracking 4 (Medium)

Extract and crack a wordpress admin password from a database dump

**30** POINTS  
OUT OF 30

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

## Cracking 5 (Medium)

Build a wordlist to crack passwords following a specific pattern

**50** POINTS  
OUT OF 50

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

## Cracking 6 (Hard)

Build a wordlist to crack passwords not found in common wordlists

**115** POINTS  
OUT OF 145

**100.0%**  
ACCURACY

COMPLETION: **85.7%**

## Zip (Medium)

Crack the password of a ZIP archive file

**25** POINTS  
OUT OF 25

**100.0%**  
ACCURACY

COMPLETION: **100.0%**



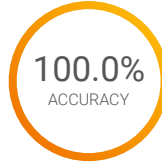


## Scanning & Reconnaissance Module

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

**7<sup>TH</sup> PLACE**  
OUT OF 3658  
NATIONAL RANK

**300** POINTS  
OUT OF 300  
PERFORMANCE SCORE



Average: 62.9%



Average: 36.7%

Vulnerability Assessment Analyst  
Target Network Analyst  
Cyber Operations Planner  
Target Developer  
Security Control Assessor

**100<sup>th</sup>** National  
Percentile

Average: 125.7 Points

Seeking (Easy)

**100** POINTS  
OUT OF 100

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

Public (Medium)

**100** POINTS  
OUT OF 100

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

Key (Hard)

**100** POINTS  
OUT OF 100

**100.0%**  
ACCURACY

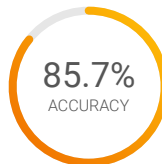
COMPLETION: **100.0%**

## Web Application Exploitation Module

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

**11<sup>TH</sup> PLACE**  
OUT OF 3658  
NATIONAL RANK

**200** POINTS  
OUT OF 300  
PERFORMANCE SCORE



Average: 58.2%



Average: 25.7%

Cyber Operator  
Software Developer  
Exploitation Analyst  
Systems Security Analyst  
Database Administrator

**100<sup>th</sup>** National  
Percentile

Average: 43.6 Points

Net Admin (Easy)

**100** POINTS  
OUT OF 100

**100.0%**  
ACCURACY

COMPLETION: **100.0%**

Travel Agency (Medium)

**40** POINTS  
OUT OF 100

**100.0%**  
ACCURACY

COMPLETION: **50.0%**

Search (Hard)

**60** POINTS  
OUT OF 100

**75.0%**  
ACCURACY

COMPLETION: **75.0%**

