NCL Spring 2022 Team Game Scouting Report

Dear Nehemjit Rai (Team "MacSec@MacEwan"),

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/K487EB7GXJQW

Based on the the performance detailed in this NCL Scouting Report, you have earned **17 hours** of Continuing Education Units (CEUs) as approved by CompTIA. You can learn more about the NCL - CompTIA alignment via 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
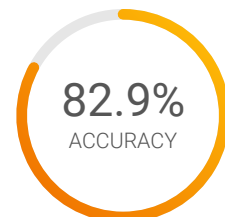
WEB APPLICATION EXPLOITATION	FORENSICS	SCANNING & RECONNAISSANCE
100TH PERCENTILE	100TH PERCENTILE	100TH PERCENTILE

NATIONAL RANK
20TH PLACE OUT OF 3658
PERCENTILE 100TH

82.9% ACCURACY

Average: 60.8%

cyberskyline.com/report
ID: K487EB7GXJQW

Nehemjit Rai
rain3@mymacewan.ca

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.

20TH PLACE OUT OF **3658**
NATIONAL RANK

100th National Percentile

2545 POINTS OUT OF 3000
PERFORMANCE SCORE
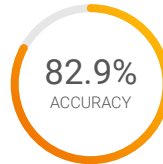
Average: 876.5 Points

82.9% ACCURACY

Average: 60.8%
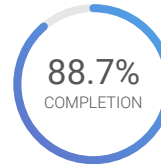
88.7% COMPLETION

Average: 35.7%

Cryptography

245 POINTS OUT OF 345

91.7% ACCURACY

COMPLETION: 91.7%

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

Enumeration & Exploitation

335 POINTS OUT OF 370

100.0% ACCURACY

COMPLETION: 94.1%

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

Forensics

280 POINTS OUT OF 300

87.5% ACCURACY

COMPLETION: 93.3%

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

Log Analysis

200 POINTS OUT OF 300

72.2% ACCURACY

COMPLETION: 61.9%

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

325 POINTS OUT OF 345

64.5% ACCURACY

COMPLETION: 95.2%

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

Open Source Intelligence

300 POINTS OUT OF 300

85.0% ACCURACY

COMPLETION: 100.0%

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 340

95.7% ACCURACY

COMPLETION: 91.7%

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

Scanning & Reconnaissance

300 POINTS OUT OF 300

85.7% ACCURACY

COMPLETION: 100.0%

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

Web Application Exploitation

200 POINTS OUT OF 300

75.0% ACCURACY

COMPLETION: 75.0%

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

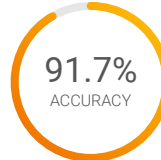Note: Survey module (100 points) was excluded from this report.

Nehemjit Rai
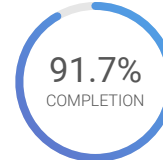rain3@mymacewan.ca

Cryptography Module

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

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

99 th National Percentile

245 POINTS OUT OF 345
PERFORMANCE SCORE

Average: 116.7 Points

91.7% ACCURACY

Average: 74.2%

91.7% COMPLETION

Average: 55.7%

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

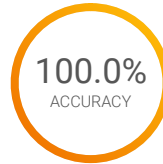|	Points	Accuracy	Completion
Decoding 1 (Easy)	20 POINTS OUT OF 20	100.0% ACCURACY	100.0%
Decoding 2 (Easy)	20 POINTS OUT OF 20	100.0% ACCURACY	100.0%
Decoding 3 (Medium)	35 POINTS OUT OF 35	100.0% ACCURACY	100.0%
Decoding 4 (Medium)	45 POINTS OUT OF 45	100.0% ACCURACY	100.0%
Decoding 5 (Hard)	0 POINTS OUT OF 100	0.0% ACCURACY	0.0%
Stego (Medium)	50 POINTS OUT OF 50	100.0% ACCURACY	100.0%
Signature (Hard)	75 POINTS OUT OF 75	66.7% ACCURACY	100.0%

Enumeration & Exploitation Module

Identify actionable exploits and vulnerabilities and use them to bypass the security measures in code and compiled binaries.
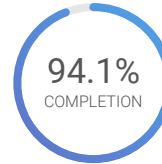
27 TH PLACE OUT OF **3658**
NATIONAL RANK

100th National Percentile

335 POINTS OUT OF 370
PERFORMANCE SCORE

Average: 99.4 Points

100.0% ACCURACY

Average: 60.9%

94.1% COMPLETION

Average: 35.1%

Cyber Operator
Target Developer
Exploitation Analyst
Software Developer
Systems Security Analyst

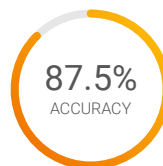|	Points	Accuracy	Completion
Secure Server (Easy)	80 POINTS OUT OF 80	100.0% ACCURACY	COMPLETION: 100.0%
dSafe (Medium)	90 POINTS OUT OF 90	100.0% ACCURACY	COMPLETION: 100.0%
Hidden (Hard)	100 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION: 100.0%
Speedy (Hard)	65 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION: 83.3%

Forensics Module

Utilize the proper tools and techniques to analyze, process, recover, and/or investigate digital evidence in a computer-related incident.
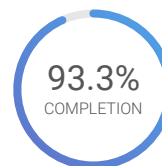
15 TH PLACE OUT OF **3658**
NATIONAL RANK

100th National Percentile

280 POINTS OUT OF 300
PERFORMANCE SCORE

Average: 154.7 Points

87.5% ACCURACY

Average: 64.8%

93.3% COMPLETION

Average: 36.8%

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

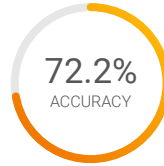|	Points	Accuracy	Completion
Leaky (Easy)	100 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION: 100.0%
Registry (Medium)	100 POINTS OUT OF 100	100.0% ACCURACY	COMPLETION: 100.0%
Dump (Hard)	80 POINTS OUT OF 100	77.8% ACCURACY	COMPLETION: 87.5%

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.

64 TH PLACE OUT OF **3658**
NATIONAL RANK

99th National Percentile

200 POINTS OUT OF **300**
PERFORMANCE SCORE

Average: 106.5 Points

72.2% ACCURACY

Average: 41.0%

61.9% COMPLETION

Average: 34.4%

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

|			
Entertainment (Easy)	**100** POINTS OUT OF 100	**77.8%** ACCURACY	COMPLETION: 100.0%
Eventful (Medium)	**100** POINTS OUT OF 100	**66.7%** ACCURACY	COMPLETION: 100.0%
Oddball (Hard)	**0** POINTS OUT OF 100	**0.0%** ACCURACY	COMPLETION: 0.0%

Network Traffic Analysis Module

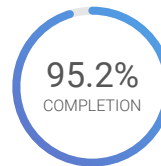Identify malicious and benign network traffic to demonstrate an understanding of potential security breaches.

47 TH PLACE OUT OF **3658**
NATIONAL RANK

99th National Percentile

325 POINTS OUT OF **345**
PERFORMANCE SCORE

Average: 138.6 Points

64.5% ACCURACY
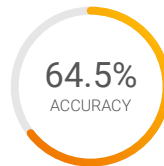
Average: 48.6%

95.2% COMPLETION

Average: 45.4%

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

|			
Shell (Easy)	**70** POINTS OUT OF 70	**100.0%** ACCURACY	COMPLETION: 100.0%
Corp Net (Medium)	**80** POINTS OUT OF 100	**35.7%** 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	**75.0%** ACCURACY	COMPLETION: 100.0%

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CYBER SKYLINE

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.

46 TH PLACE
OUT OF **3658**
NATIONAL RANK

99th National Percentile

300 POINTS
OUT OF 300
PERFORMANCE SCORE

Average: 182.7 Points

85.0% ACCURACY

Average: 63.1%

100.0% COMPLETION
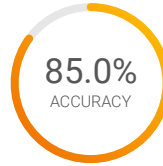
Average: 77.5%

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

Rules of Conduct (Easy)	25 POINTS OUT OF 25	83.3% 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	100.0% ACCURACY	COMPLETION:	100.0%

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The National Cyber League
A Community Where Cybersecurity Is a Passion
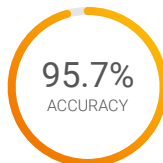
Nehemjit Rai
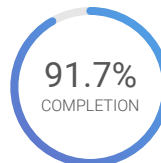rain3@mymacewan.ca

Password Cracking Module

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

140 TH PLACE
OUT OF 3658
NATIONAL RANK

97th National
Percentile

260 POINTS
OUT OF 340
PERFORMANCE SCORE

Average: 157.3 Points

95.7%
ACCURACY

Average: 88.2%

91.7%
COMPLETION

Average: 58.5%

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

|		
Cracking 1 (Easy)	**30** POINTS OUT OF 30	**100.0%** ACCURACY	COMPLETION: 100.0%
Crack MD5 password hashes from a known wordlist			
Cracking 2 (Easy)	**30** POINTS OUT OF 30	**100.0%** ACCURACY	COMPLETION: 100.0%
Crack SHA1 password hashes from a known wordlist			
Cracking 3 (Easy)	**30** POINTS OUT OF 30	**100.0%** ACCURACY	COMPLETION: 100.0%
Crack Windows NTLM password hashes			
Cracking 4 (Medium)	**30** POINTS OUT OF 30	**100.0%** ACCURACY	COMPLETION: 100.0%
Extract and crack a wordpress admin password from a database dump			
Cracking 5 (Medium)	**50** POINTS OUT OF 50	**75.0%** ACCURACY	COMPLETION: 100.0%
Build a wordlist to crack passwords following a specific pattern			
Cracking 6 (Hard)	**65** POINTS OUT OF 145	**100.0%** ACCURACY	COMPLETION: 71.4%
Build a wordlist to crack passwords not found in common wordlists			
Zip (Medium)	**25** POINTS OUT OF 25	**100.0%** ACCURACY	COMPLETION: 100.0%
Crack the password of a ZIP archive file			

Scanning & Reconnaissance Module

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

24TH PLACE OUT OF 3658
NATIONAL RANK

100th National Percentile

300 POINTS OUT OF 300
PERFORMANCE SCORE

Average: 125.7 Points

85.7% ACCURACY
Average: 62.9%
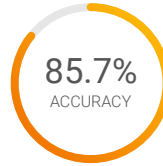
100.0% COMPLETION
Average: 36.7%

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

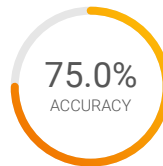|	Points	Accuracy	Completion
Seeking (Easy)	100 POINTS OUT OF 100	100.0% ACCURACY	100.0%
Public (Medium)	100 POINTS OUT OF 100	100.0% ACCURACY	100.0%
Key (Hard)	100 POINTS OUT OF 100	66.7% ACCURACY	100.0%

Web Application Exploitation Module

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

13TH PLACE OUT OF 3658
NATIONAL RANK

100th National Percentile

200 POINTS OUT OF 300
PERFORMANCE SCORE

Average: 43.6 Points

75.0% ACCURACY
Average: 58.2%

75.0% COMPLETION
Average: 25.7%

Cyber Operator
Software Developer
Exploitation Analyst
Systems Security Analyst
Database Administrator

	Points	Accuracy	Completion
Net Admin (Easy)	100 POINTS OUT OF 100	100.0% ACCURACY	100.0%
Travel Agency (Medium)	0 POINTS OUT OF 100	0.0% ACCURACY	0.0%
Search (Hard)	100 POINTS OUT OF 100	66.7% ACCURACY	100.0%