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**CYBER SKYLINE**

# NCL CATEGORY ALIGNMENT

How NCL Cybersecurity Skill Categories Align to the NIST NICE Cybersecurity Work Roles and CompTIA Certifications

(Updated August 2021)

The National Cyber League (NCL), powered by Cyber Skyline, enables high school and college students across the U.S. to prepare and test themselves against practical cybersecurity challenges they will likely face in the workforce. The National Institute of Standards and Technology (NIST), through the National Initiative for Cybersecurity Education (NICE), has created a widely used Cybersecurity Workforce Framework to standardize cybersecurity competency areas and terminology.

NCL's partner, CompTIA, offers relevant certifications for the cybersecurity profession. The chart below shows alignment of the nine NCL Game categories to NIST NICE Cybersecurity Work Roles and CompTIA Certifications. Using this chart, cybersecurity recruiters are able to quickly match the hands-on knowledge and skills of NCL student players to cybersecurity job openings. NCL also aligns with the NSA Centers of Academic Excellence in Cyber Defense (CAE-CD) Knowledge Units.


















































































**KEY:** The National Cyber League (NCL) Competition consists of nine skill categories shown below.

Open Source Intelligence	Cryptography	Password Cracking	Log Analysis	Network Traffic Analysis	Forensics	Web Application Exploitation	Scanning	Enumeration and Exploitation

NIST NICE CYBERSECURITY WORK ROLE	RELEVANT COMPTIA CERTIFICATIONS	NIST NICE CYBERSECURITY WORKFORCE CATEGORY	NCL SKILL CATEGORIES
THESE ARE THE JOBS	AS OF 8-21	NICE CATEGORY	ALIGNING TO THESE NCL SKILL CATEGORIES
All-Source Analyst	NA	Analyze	
COMSEC Manager	CASP+	Oversee and Govern	
Cyber Crime Investigator	PenTest+	Investigate	
Cyber Defense Analyst	PenTest+	Protect and Defend	
Cyber Defense Forensics Analyst	PenTest+, CySA+	Investigate	
Cyber Defense Incident Responder	Security+, PenTest+, Cloud+	Protect and Defend	
Cyber Defense Infrastructure Support Specialist	A+, Network+, PenTest+, Cloud+	Protect and Defend	
Cyber Intel Planner	PenTest+, CySA+, CASP+	Operate and Collect	
Cyber Operations Planner	PenTest+, CySA+, CASP+	Operate and Collect	
Cyber Operator	PenTest+, CySA+, CASP+	Operate and Collect	
Data Analyst	CASP+	Operate and Maintain	
Database Administrator	Security+	Operate and Maintain	
Enterprise Architect	Cloud+	Securely Provision	
Exploitation Analyst	PenTest+, CySA+, CASP+	Analyze	
Forensics Analyst	PenTest+, CySA+	Investigate	
Information Systems Security Developer	Security+	Securely Provision	
IT Program Auditor	CASP+	Oversee and Govern	

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THESE ARE THE JOBS	AS OF 8-21	NICE CATEGORY	ALIGNING TO THESE NCL SKILL CATEGORIES
Language Analyst	NA	Analyze	 
Network Operations Specialist	Cloud+, Security+	Operate and Maintain	     
Partner Integration Planner	PenTest+, CySA+, CASP+	Operate and Collect	  
Privacy Compliance Manager	NA	Oversee and Govern	 
Requirements Planner	CASP+	Securely Provision	  
Research & Development Specialist	PenTest+	Securely Provision	      
Secure Software Assessor	Security+	Securely Provision	   
Security Architect	CASP+	Securely Provision	     
Security Controls Assessor	Security+, PenTest+, CySA+	Securely Provision	   
Software Developer	Security+	Securely Provision	 
Systems Administrator	Cloud+	Operate and Maintain	   
Systems Developer	Security+	Securely Provision	      
Systems Security Analyst	CySA+	Operate and Maintain	        
Target Analyst	NA	Analyze	      
Target Developer	NA	Analyze	       
Technical Support Specialist	PenTest+, CySA+, CASP+	Operate and Maintain	   
Testing and Evaluation Specialist	Network+, Security+, PenTest+, CySA+	Securely Provision	  
Vulnerability Analyst	PenTest+	Protect and Defend	