

Northrop Grumman understands the growing cyber threat and the critical need to build a highly trained cyber workforce. To address these growing demand for qualified cyber professionals, Northrop Grumman established the Cyber Academy. The Cyber Academy was chartered to be the educational conduit for both internal Northrop Grumman personnel and the broader DoD, intelligence community (IC) and federal/civil customer base. The Cyber Academy addresses both internal and external learning and training needs in parallel to attract and develop top cyber talent, strengthen cyber capabilities, meet customer needs, enhance program performance, and to win and staff new business.

Northrop Grumman is a leading integrator of cybersecurity solutions for the Department of Defense, intelligence community, civilian agencies, commercial and international customers, offering innovative cyber solutions to secure our global information systems. For more information about Northrop Grumman in cybersecurity, go to www.northropgrumman.com/cybersecurity.

Northrop Grumman is a leading global security company providing innovative systems, products and solutions in unmanned systems, cybersecurity, C4ISR, and logistics and modernization to government and commercial customers worldwide. Please visit www.northropgrumman.com for more information.

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NORTHROP GRUMMAN

CYBER ACADEMY™

Developing the Cyber Workforce

www.northropgrumman.com

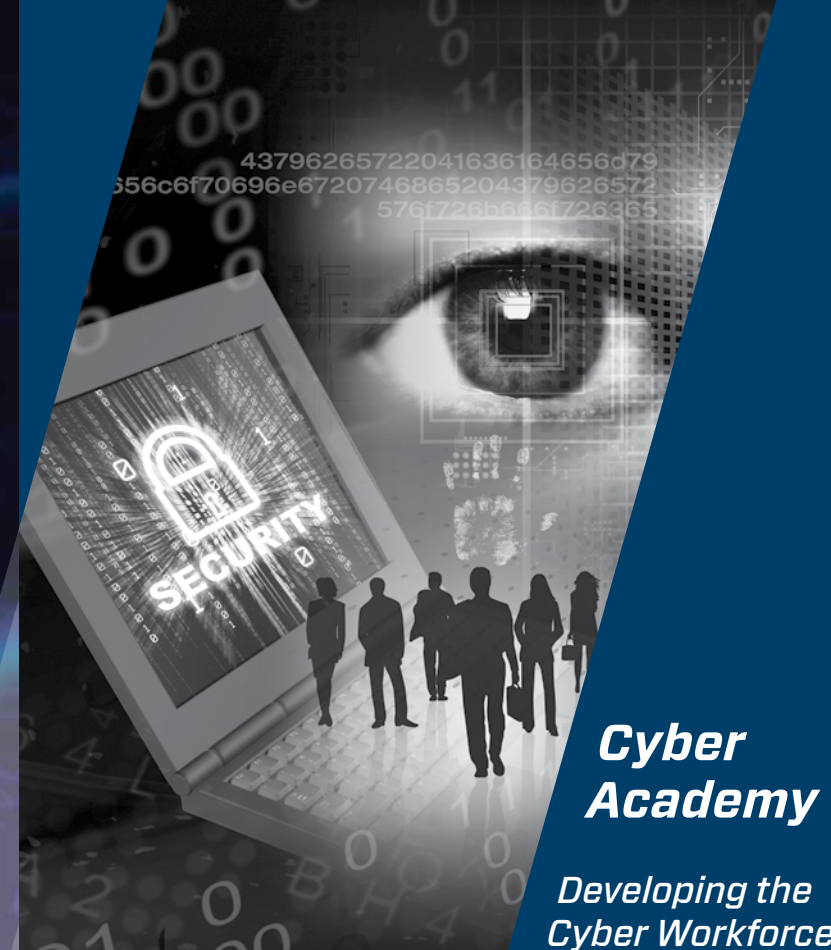
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Cyber Academy

Developing the Cyber Workforce

Cyber Academy: Developing the Cyber Workforce

The Cyber Academy provides training courses, learning opportunities, and career and certification pathways to increase the level of knowledge in cybersecurity and cyber warfare. The Cyber Academy helps ensure Northrop Grumman has the most qualified talent available to take on the full spectrum of cyber challenges for our customers.

Curriculum

Overview offerings provide leaders, decision makers, and technologists a high-level view of the technical curriculum, while additional Cyber Academy courses provide awareness and specialized training for both technical and non-technical audiences:

- **001/002: Overview Courses (2 or 4 hrs)** – These overview courses review cybersecurity and its impact on your organization, to include a summary of methodologies, tools, and techniques used by today’s computer attackers.
- **Cyber 101: Fundamentals and Hands-on Lab (4 days)** – In-depth discussion, demonstration, and hands-on training in a virtual lab environment, with students gaining an understanding of attack methodologies and preparing the defense of their own machine to expose and reduce vulnerabilities.
- **Cyber 102: Network Security Essentials (1 day)** – Provides an overview of networking, the Open System Interconnection (OSI) Reference Model, and the necessary security measures used to protect a network against attacks.

- **Cyber 210: Cybersecurity for Business Developers/ Program Managers (4 hour class):** Cybersecurity fundamentals and guidance on integrating into business development and programs. The course uses pictorial perspectives that will facilitate communications throughout the program lifecycle.
- **Cyber 301: Software Security Engineering (1 day)** – Teaches how and where to build security in to the Software Development Lifecycle including techniques for threat modeling, architecture & design, and methodologies for secure coding/testing.
- **Cyber 401: Penetration Testing (4 days)** – In-depth discussion and hands-on training in a virtual lab environment, with students learning the steps to performing a Penetration Test including planning, stealth reconnaissance, vulnerability assessment, gaining access to the target, post-exploitation technologies, and reporting findings.
- **Cyber 402: Cyber Architecture Analysis & Application (2 days)** – Provides an understanding of cyber architecture, the role of cyber architects, and introduces various cyber artifacts, capabilities, and frameworks enabling students to develop repeatable cyber architecture solutions.

Cyber Academy Partnerships

Northrop Grumman continually develops relationships with thought leaders and suppliers in cybersecurity, and partnering opportunities within academia, industry, and the client community, to enhance Cyber Academy offerings and learning opportunities. Partnerships focus on cyber/Information Assurance (IA) certifications and training in specialized areas of cybersecurity including next generation technologies and tools.

Cyber Certification Program

The Cyber Academy assists employees in their pursuit of certification(s), including certifications in alignment with the DoD 8570.01-M Directive. Employees may follow defined pathways to certification, take advantage of training opportunities, and participate in exam preparation cohorts for specific certifications available through university and vendor partnerships. Northrop Grumman’s Education Assistance Program provides funding for employees to participate in related preparation courses and exams.



Cyber Academy Training Framework

The foundation for Cyber Academy training and development includes the business needs, cyber skills and competencies, industry and academic partnerships, and technology/research. Each level of the training framework aims to meet specific training and development needs for Northrop Grumman, customers, and potential client audiences.

Cyber Academy Training Framework