

National Initiative for Cybersecurity Education (NICE) Working Group

K12 Subgroup

K12 Educational Materials: Content Review and Repository Recommendations

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1. Project Team Purpose

Collect and review K12 educational materials that can be used to inspire cybersecurity career awareness with students in elementary school, stimulate cybersecurity career exploration in middle school, and enable cybersecurity career preparedness in high school. This project helps address Recommendation 3.5 in *Report to the President on Growing and Sustaining the Nation's Cybersecurity Workforce* calling for the establishment of a clearinghouse of information on cybersecurity workforce development education, training, and development programs and initiatives. The clearinghouse, which would serve the public and private sectors, should include knowledge from allies and the wider global community and address:

- New and existing government programs and initiatives, such as research, pilot programs and grants, for the purposes of collaboration, information sharing, and efficient resource management; and
- Private sector education and training offerings that will provide employers, students, and transitioning workers information on content, quality, cost, and the types of financial assistance available.

This project focuses on the K12 educational content and resources.

2. Project Team Objectives

Increased awareness and use of high quality K12 cybersecurity educational resources inspire cybersecurity career awareness with students in elementary school, stimulate cybersecurity career exploration in middle school, and enable cybersecurity career preparedness in high school. Connection between the NICE Workforce Framework and other nationally recognized K12 standards will aid in adoption of high-quality instructional materials and promote future high-quality design of instructional materials.

3. Project Team Deliverables

Deliverables proposed for this effort include:

- Curation of known K12 educational resources. Identify and document K12 educational resources to include curriculum, online courses, interactives, videos, games, lesson plans, lesson seeds, micro lessons, teacher guides, study activities, hands-on activities, and E-books/resources.
- Cross mapping NICE Workforce Framework and other nationally recognized K12 standards
- Development of rubric for content analysis and standardization process for K-12 content
- Resource page or searchable database of high quality K12 cybersecurity educational resources.