

(ISC)²[®]

INSPIRING A SAFE AND SECURE CYBER WORLD.



Educational Programs for Building and Strengthening the Cyber Workforce

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(ISC)²

- Largest not-for-profit membership body of certified cyber, information, software and infrastructure security professionals worldwide.
- Provides membership services to over 115,000 security professionals in more than 160 countries.
- Is recognized for Gold Standard certifications and world-class education programs.
- Headquartered in Clearwater, FL with offices in Alexandria, VA, London, Hong Kong, Tokyo, Mumbai, and an authorized China agency in Beijing.



Agenda

- Highlight the ever increasing need for competent well trained cyber professionals.
- Describe the risk inherent in professional certification programs that focus more on memorization than enabling performance when cyberattacks occur.
- Identify and share how to increase the learning outcomes of students and enhance the preparedness of cybersecurity professionals.
- Discuss the development of new (ISC)² educational materials.

The Playing Field is Tilted...

“THE PLAYING FIELD IS TILTED IN FAVOR OF THE ADVERSARY. TO ALTER THIS REALITY, A FUNDAMENTAL SHIFT IS REQUIRED IN HOW THE GOVERNMENT APPROACHES CYBERSECURITY.”

—SECURITY DIRECTOR, CIVILIAN AGENCY



www.isc2.org/FedCyberExecSurvey

People Play a Vital Role...

PEOPLE CAN BE AN ORGANIZATION'S
GREATEST CYBERSECURITY ASSET OR
ITS GREATEST LIABILITY.



Demand for Cyber Professionals

- **Cybersecurity jobs are in demand and growing across the economy**

The fastest increases in demand for cybersecurity workers are in industries managing increasing volumes of consumer data such as Finance (+137% over the last five years), Health Care (+121%), and Retail Trade (+89%).

- **Cybersecurity employers demand a highly educated, highly experienced workforce**

Approximately 84% of cybersecurity postings specify at least a bachelor's degree, and 83% require at least three years of experience.

Because of the high education and experience requirements for these roles, skills gaps cannot easily be resolved through short-term solutions.

- **Geographically, cybersecurity jobs are concentrated in government and defense hubs, but are growing most quickly in secondary markets.**

On a per capita basis, the leading states are Washington D.C., Virginia, Maryland, and Colorado.

Source: Burning Glass Job Market Intelligence, Cybersecurity Jobs 2015



Identifying Skilled Professionals

- Employers must fill positions and validation of candidate skills and competency is CRITICAL.
- Employers are more likely to require certifications for cybersecurity jobs than for other IT jobs as a way to identify qualified candidates.

“One third (35%) of cybersecurity jobs call for an industry certification, compared to 23% of IT jobs overall.”



Job Market Intelligence:
Cybersecurity Jobs, 2015



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The Challenge

How can we help to address the shortage of qualified cyber professionals?

- Enhance certification programs to test and validate technical skills as well as general knowledge.
- Leverage online delivery methods to deliver training to a broader more geographically dispersed audience.
- Partner with Colleges and Universities and integrate skill based training into existing degree program curriculum.
- Create programs that can be consumed in small bit sized pieces.



Questions and Discussion