



CYBERSECURITY NEXUS

Auditorsdag 21 september 2017

Too Many Threats

MORE THAN
550
MILLION



RECORDS WERE BREACHED IN THE FIRST HALF OF 2016 ALONE.¹

\$4
MILLION:
AVERAGE COST OF
A DATA BREACH
IN 2016.²

32%

OF ECONOMIC CRIME AFFECTING ORGANIZATIONS IS CYBERCRIME MAKING IT THE SECOND MOST REPORTED.³

201 DAYS

WAS THE MEAN TIME TO IDENTIFY A DATA BREACH IN 2016, WHILE THE MEAN TIME TO CONTAIN A DATA BREACH WAS 70 DAYS.⁴

97%

OF IT DECISION MAKERS SAY THEIR ORGANIZATION'S BOARD OF DIRECTORS NOW VIEWS CYBER SECURITY AS IMPORTANT.⁵

2017 Cyber Security Skills Gap

Cyberattacks are growing, but the talent pool of defenders is not keeping pace.

Although attacks are growing in frequency and sophistication, the availability of sufficiently skilled cyber security professionals is falling behind. ISACA's Cybersecurity Nexus (CSX) is addressing this gap by creating a skilled global cyber security workforce. From the Cyber Security Fundamentals Certificate for university students to CSX Practitioner—the first vendor-neutral, performance-based cyber security certification—and new security training programs, CSX is enabling cyber security professionals at every stage of their careers, and helping enterprises develop strong cyber work forces.

Too Few Professionals

THE DEMAND FOR INFORMATION SECURITY PROFESSIONALS IS EXPECTED TO GROW BY



53% BY 2018.⁶

32%



OF SECURITY PROFESSIONALS SAY IT TAKES SIX MONTHS OR MORE TO FILL CYBER SECURITY POSITIONS IN THEIR ORGANIZATIONS.⁷

MORE THAN **7 IN 10**

DECISION MAKERS REPORT THE SHORTAGE IN CYBER SECURITY SKILLS DOES DIRECT AND MEASURABLE DAMAGE TO THEIR ORGANIZATIONS BY MAKING THEM MORE DESIRABLE HACKING TARGETS.⁸

48%

OF ORGANIZATIONS GET FEWER THAN 10 APPLICANTS FOR CYBER SECURITY POSITIONS. 64% SAY FEWER THAN HALF OF THEIR CYBER SECURITY APPLICANTS ARE QUALIFIED.⁹



60% & 72%

OF MEN OF WOMEN REPORT THAT NO HIGH SCHOOL TEACHER OR COUNSELOR MENTIONED CYBER SECURITY AS A CAREER.¹⁰

SOURCES: 1. 2016 H1 Breach Level Index, Gemalto, September 2016. 2. 2016 Cost of Data Breach Study: Global Analysis, IBM and Ponemon Institute, June 2016. 3. PwC Global Economic Crime Survey 2016. 4. 2016 Cost of Data Breach Study: Global Analysis, IBM and Ponemon Institute, June 2016. 5. Hacking the Skills Shortage: A study of the International Shortage in Cybersecurity Skills, McAfee, May 2016. 6. Demand to Fill Cybersecurity Jobs Booming, Peninsula Press, March 2015. 7. ISACA's 2017 State of Cyber security Study. 8. Hacking the Skills Shortage: A study of the International Shortage in Cybersecurity Skills, McAfee, May 2016. 9. ISACA's 2017 State of Cyber security Study. 10. Securing Our Future: Closing the Cyber Talent Gap, Raytheon and NCSA, October 2016.



<https://cybersecurity.isaca.org>

HOW DO WE CLOSE THE GROWING SKILLS GAP IN THE CYBERSECURITY FIELD?

Cyber attacks are increasing in sophistication and frequency, yet the shortage of skilled technical professionals has continued to grow exponentially.

How has this gap continued to widen, leaving organizations at risk?

- The workforce has been traditionally focused on a more generalized security education and compliance-based concepts versus advanced, technical cyber security training.
- Organizations lacking skilled technicians are unable to handle inevitable breaches, properly detect and contain the damage, identify weaknesses in their environments and respond appropriately.
- Skilled cyber security professionals are hard to come by, and it's even harder for employers to validate that they have the actual technical savvy and skill to do the job from day one.



ORGANIZATIONS EXPERIENCE CHALLENGES AND DELAYS IN FINDING QUALIFIED CANDIDATES

State of Cyber Security 2017

Workforce Trends and Challenges

ISACA's third annual State of Cyber Security study finds that the field remains dynamic and turbulent during its formative years. One of the core challenges remains the persistent cyber security skills gap, and the difficulty of finding qualified candidates to fill cyber security positions. Security leaders share their workforce observations and challenges in the findings below. Get more workforce-related data and implications at www.isaca.org/state-of-cyber-security-2017.

Hiring Challenges Persist



HIRING STATUS

Many are **UNABLE TO FILL** open cyber security positions in their enterprises:

IN THE US:



Skills and Certifications in Demand



ISACA®'S CYBERSECURITY NEXUS™ [CSX] IS THE SOLUTION

Your Premier Source For Cyber Security Knowledge and Expertise.

The need for skilled cyber security professionals continues to grow, but so do the opportunities to move ahead in the field. To help address the global cyber security skills crisis head on, ISACA® has created Cybersecurity Nexus™ (CSX).

CSX is helping shape the future of cyber security through cutting-edge thought leadership, as well as training and certification programs for the professionals who are leading it there. Building on the strength of ISACA's globally-recognized expertise, it gives cyber security professionals a smarter way to keep organizations and their information more secure.

WE' RE HELPING BUILD A BETTER WORKFORCE WITH A HOLISTIC CYBERSECURITY PROGRAM

CSX is designed to help fortify and advance the industry by educating, training and certifying a stronger, more informed workforce that can keep organizations and their information secure—now and in the future. CSX is the only “one-stop shop” for all things cyber security. You’ll find just the right guidance, training and educational events to meet your needs, no matter where you are in your career.



Membership

Professional, student and academic advocate memberships, local chapters



Credentialing and Training

Skills-based training programs, performance-based certification



Education & Conferences

Workshops, webinars, CSX North America, CSX Europe, CSX Singapore, CSX Cairo



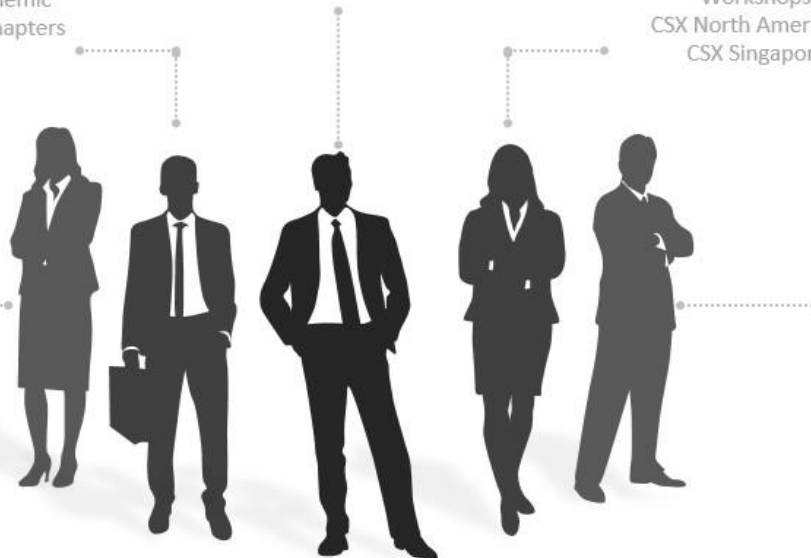
Resources & Publications

Books, whitepapers, journal articles, blog posts, studies, thought leadership



Career Development

Cyber Security Career Roadmap



THE CSX WEBSITE IS THE PREMIER PLACE FOR PROFESSIONALS TO TURN FOR ALL THINGS CYBER SECURITY

Our website is the main hub for our holistic Cyber Security Nexus program. Explore all that CSX has to offer at <https://cybersecurity.isaca.org>

BECOME A MEMBER



ENTERPRISE TRAINING SHARE SEARCH

GAINED NOT GIVEN

Experience and judgment. Strength and momentum. Confidence and trust. They're all gained by the things we accomplish. And like anything truly valuable, they're never just given. Cybersecurity Nexus™ (CSX) is a new program designed for the most ambitious cyber security professionals, empowering them to elevate their work, take control of their career paths and earn their place amongst the best.

LEARN MORE

DISCOVER CSX



JOIN THE BEST OF THE BEST

Unlock the full potential of your Cybersecurity Nexus experience and elevate your career by becoming a member of ISACA.

BECOME A MEMBER



GET CERTIFIED. GET NOTICED.

Prove your place among the industry leaders and advance your career by earning a performance-based CSX Practitioner certification.

GET CERTIFIED



LAY THE FOUNDATION.

Launch your career by exploring the industry guidelines, and practices with our Cybersecurity Certificate.

ENROLL TODAY

ABOUT

Program Overview

Discover CSX

CSX Newsroom

Become a Training Partner

CREDENTIALING

Credentialing Overview

Cybersecurity Fundamentals Certificate

CSX Practitioner Certification

KNOWLEDGE BASE

Threats & Controls Tool

Resources

CAREERS

Career Roadmap Tool

CYBER NEWS

Latest News

Threat Watch

LEARNING

Training Courses

CSX Practitioner Labs

Enterprise Training

Conferences

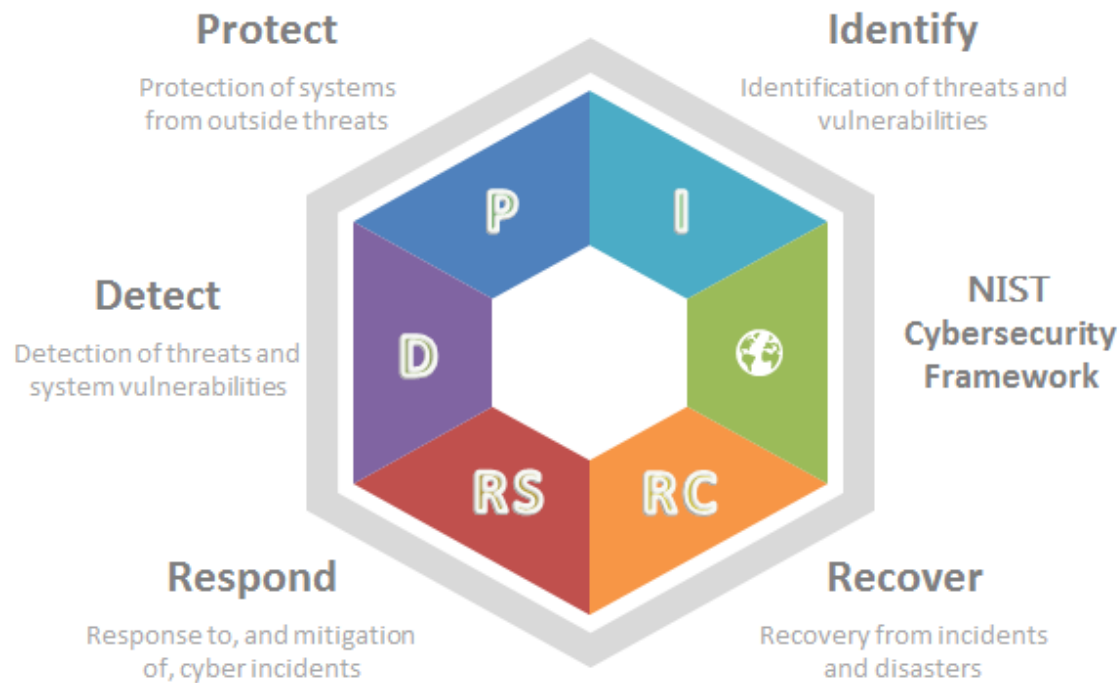
Webinars

YOUR CSX

Access your purchased course material and labs, register for exams and track your progress.

CSX CREDENTIALING AND EDUCATIONAL PROGRAMS ALIGN WITH GLOBAL FRAMEWORKS

CSX programs align to existing global cyber security frameworks, including the National Institute of Standards and Technology's (NIST) Cybersecurity Framework. Our training programs help build knowledge and skill in the following cyber security areas in varying degrees of complexity, and our Cybersecurity Fundamentals Certificate exam and CSX Practitioner exam test the candidate's knowledge and ability to perform tasks within these areas.



ISACA CYBER SECURITY CREDENTIALS

Our holistic program starts with the knowledge-based Cybersecurity Fundamentals Certificate for those who are new to the profession or looking to change careers, and centers on our performance-based CSX Practitioner certification.

For those looking to move into a more managerial role, our Certified Information Security Manager® (CISM) is an ideal solution.

GLOBALLY-RECOGNIZED CREDENTIALS

CSX CYBERSECURITY
FUNDAMENTALS CERTIFICATE

CSX P
Certified Cybersecurity Practitioner
2016 SC Magazine Award Winner for Best Certification Program

CISM Certified Information Security Manager®
An ISACA® Certification
2014 SC Magazine Award Finalist for Best Certification Program

NETWORK AND LEARN WITH CSX CONFERENCES

EXPLORE. EXCHANGE. EXCEL.



Join the leading cyber security experts from around the world during three global CSX Conferences in 2017. Each conference will offer a large number of highly-insightful sessions, led by the top names in the industry and covering the most current knowledge, skills and tools available. You'll leave with insights and takeaways for every level of expertise and experience, and enjoy outstanding networking and social events while you're there.



Don't miss special events like:

- Women in Cyber
- Cyber Hacking Competition
- Sessions for Students
- And more!

INDUSTRY LEADING GUIDANCE, TRAINING AND EDUCATION

CSX offers a wide range of additional resources to help you keep up with the latest trends in cyber security and advance your career:



Onsite Training

Let us come to you and train your entire team — and eliminate costly travel and time away from the office. Our CSX Practitioner courses and Boot Camp are offered onsite with CSX instructors leading lecture and hands-on skill development in a virtual “cyber lab” environment. Cybersecurity Fundamentals is also available on-site for instruction in the foundational concepts of cyber security.



Online Courses & Events

Learn at your own pace 24/7 with the Cybersecurity Fundamentals online course . Grab a colleague and catch a talk from an industry expert over lunch with our monthly CSX Webinar Series. Or join us for an all-day virtual conference — attend solo or with an entire group of coworkers.



Research & Publications

Stay up-to-date on the latest research and thought leadership from CSX and industry experts. You'll find a full range of books, whitepapers, surveys & studies, articles, news and more on the CSX website. Members enjoy discounts on paid publications , and there are a wide variety of free tools and content available.



Workshops

Gain in-depth knowledge and hands-on training during CSX workshops offered before or after many ISACA conferences and events. It's a great way to add additional training without adding additional travel expense, if you're already planning on attending the conference.

Discussie

Hoe kan ISACA NL het beste de aansluiting maken tussen CSX en Audit?