THE ONLY IT SECURITY TRADE SHOW IN RUSSIA AND THE MAIN BUSINESS EVENT

SECURITY
INNOVATIONS
COMMUNITY

infosecurity
RUSSIA

20–22 September 2016
CROCUS EXPO, MOSCOW

ISACA's CYBERSECURITY NEXUS– will you be a cyber defender?

This presentation will provide you with information about ISACA's Cybersecurity Nexus:

- **Increasing cyber threats – what do they mean to you and your company**

- **Shaping the cybersecurity professional – how ISACA is looking to link cyber professionals throughout the world**

- **Advancing your skills – no matter what your current role is**

- **Becoming part of the Nexus**

ISACA
Trust in, and value from, information systems

Introducing the speaker

CISA, CMA, CPA,
Six Sigma Green Belt
ramato@Deloitte.nl
Member of the ISACA Audit Committee
Board Member of the IMA

As a Director within the Netherlands member firm of Deloitte, Rosemary Amato moved to her current role as Managing Director in Global Finance for Deloitte Touche Tohmatsu Limited as of July 2016. The purpose of this role is to lead strategic initiatives as requested and to work with the Managing Director in Global Finance and Accounting to bring innovative processes to the forefront of this business unit.

Prior to this role she managed the Global Client Intelligence (GCI) program whose purpose was to provide comprehensive timely, complete and accurate quantitative global client information to enable Deloitte professionals to serve clients with distinction. Her virtual team collected data from Deloitte's network of member firms, stored the data, and delivered this information using next generation visualization capabilities.

Prior to her GCI role, Rosemary was the Global Risk Services Knowledge Management leader. During that time she focused on enabling a knowledge sharing environment for the 12000 risk professionals throughout the world. Her responsibilities included intranet as well as internet knowledge assets, and she managed a virtual team of knowledge advocates located throughout the world.

She also spent 12 years in the client service area of Deloitte as an experienced IT Audit/Risk Director, focused on Internal Audit, Security and Privacy, IT Audit, Business Process controls, GRC, and other Enterprise Risk Services market offerings.

Rosemary currently sits on the Board of IMA, chairing the Performance Oversight and Audit Committee. She also sits on the Audit Committee for ISACA. Her certifications include being a CMA, CISA, CPA and a Six Sigma green belt. She has had many speaking engagements over the years on the subjects of: Digital Darwinism, Big Data, Data Visualization, CRM, Knowledge Management, Social Media, Controls Transformation, GRC, Risk Intelligence, FDA/EU regulatory strategy, IT Governance, and Cybersecurity.
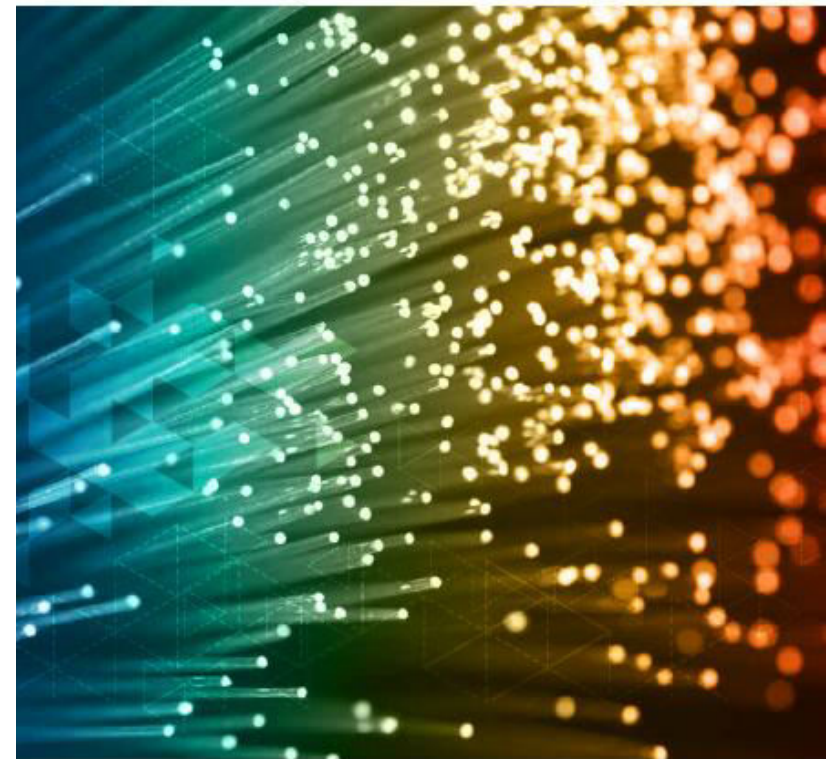
Prior to Deloitte, her last position was that of Vice President Controller for a large USA retail organization, and she held a variety of positions in Accounting, IT and Operations, from small privately held businesses to large international companies in multiple industries.

CSX
CYBERSECURITY NEXUS
BY ISACA

TYPE AND FREQUENCY OF ATTACKS

Legend: Daily | Weekly | Monthly | At least quarterly | N/A

Online identify theft
- Daily: 4%
- Weekly: 5%
- Monthly: 6%
- At least quarterly: 21%
- N/A: 65%

Hacking
- Daily: 11%
- Weekly: 7%
- Monthly: 9%
- At least quarterly: 25%
- N/A: 47%

Malicious code
- Daily: 16%
- Weekly: 12%
- Monthly: 13%
- At least quarterly: 26%
- N/A: 32%

Loss of intellectual property
- Daily: 1%
- Weekly: 2%
- Monthly: 4%
- At least quarterly: 20%
- N/A: 72%

Intentional damage to computer systems
- Daily: 1%
- Weekly: 1%
- Monthly: 5%
- At least quarterly: 18%
- N/A: 74%

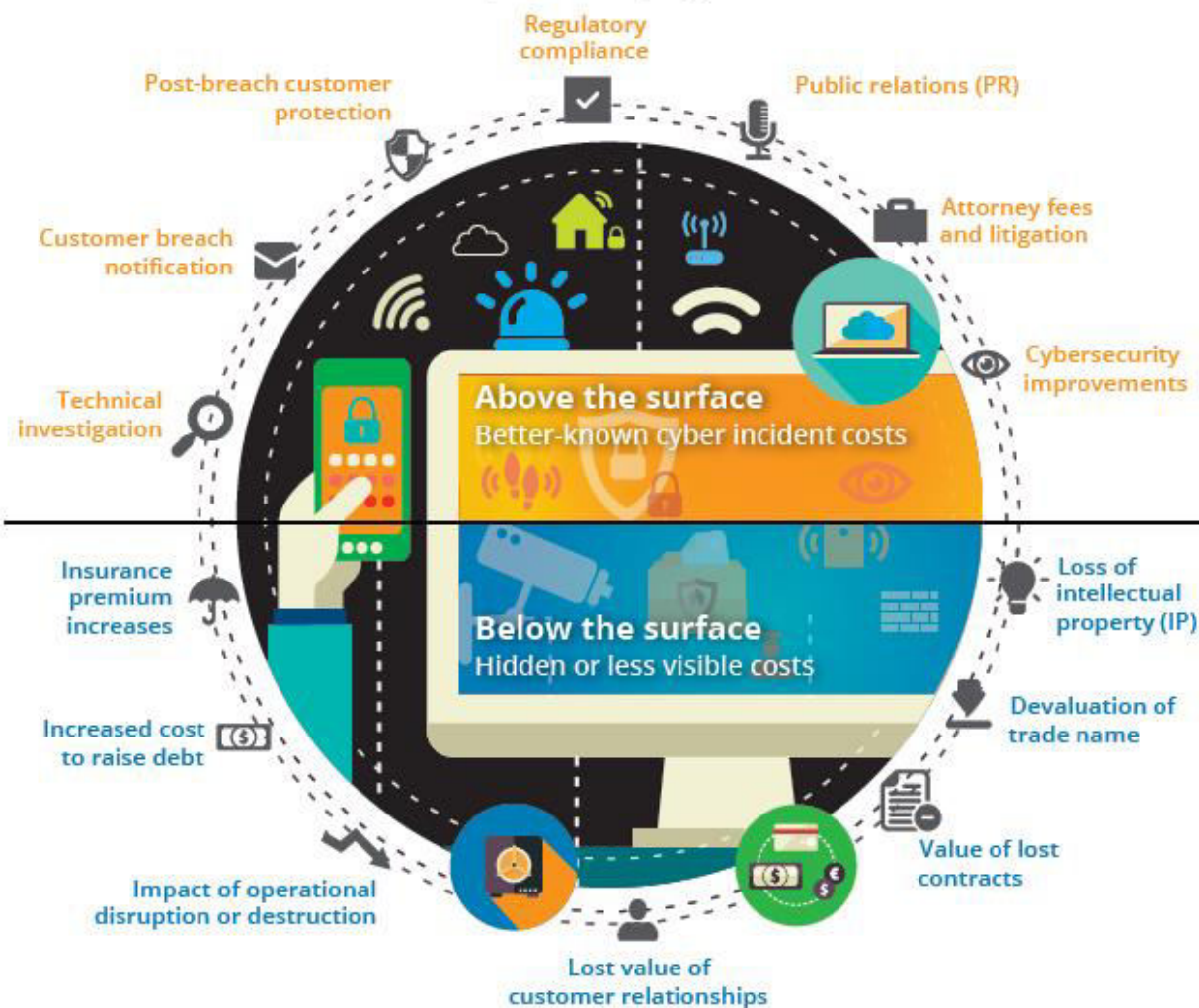# AND IT CONTINUES TO THESE AREAS
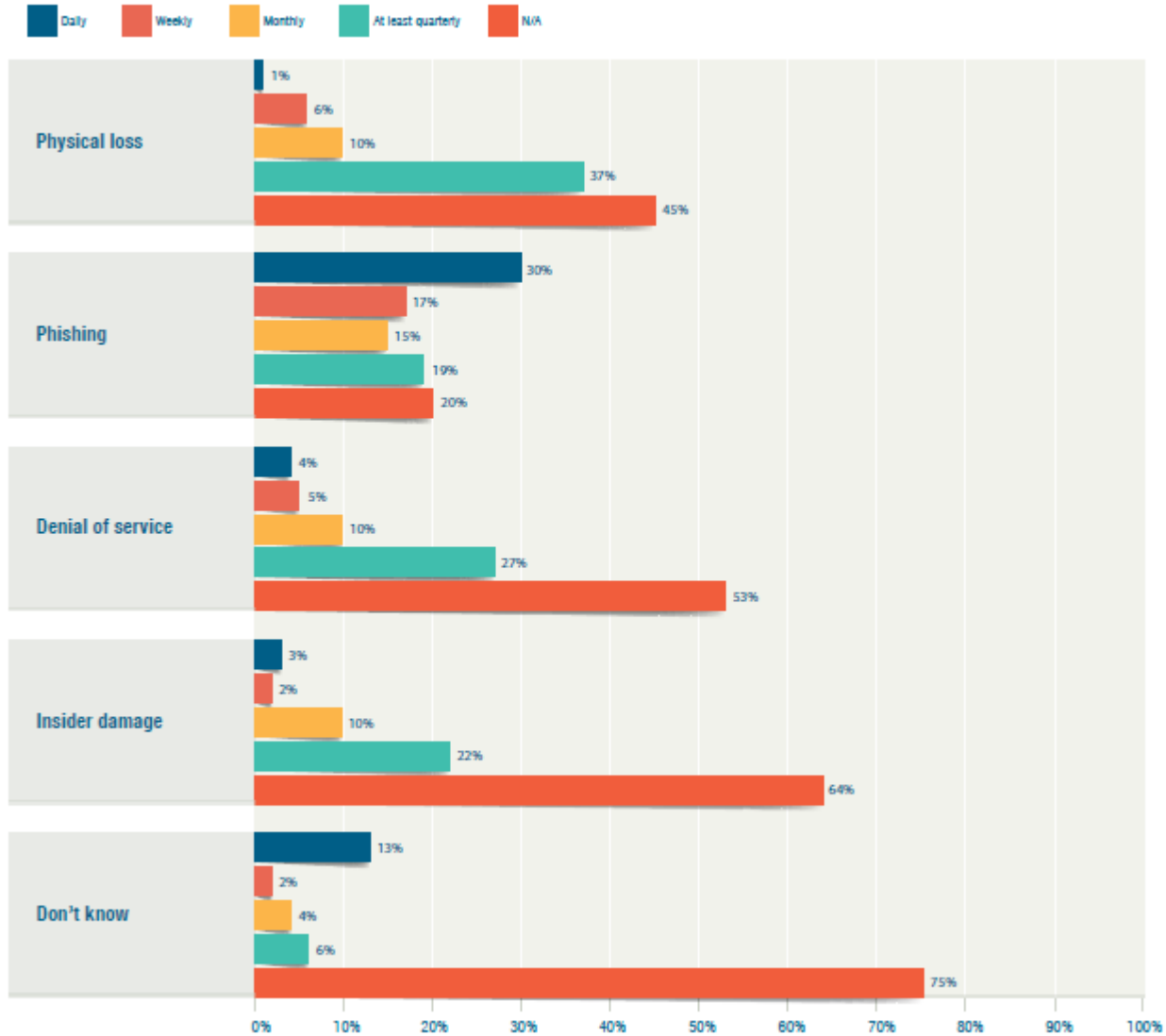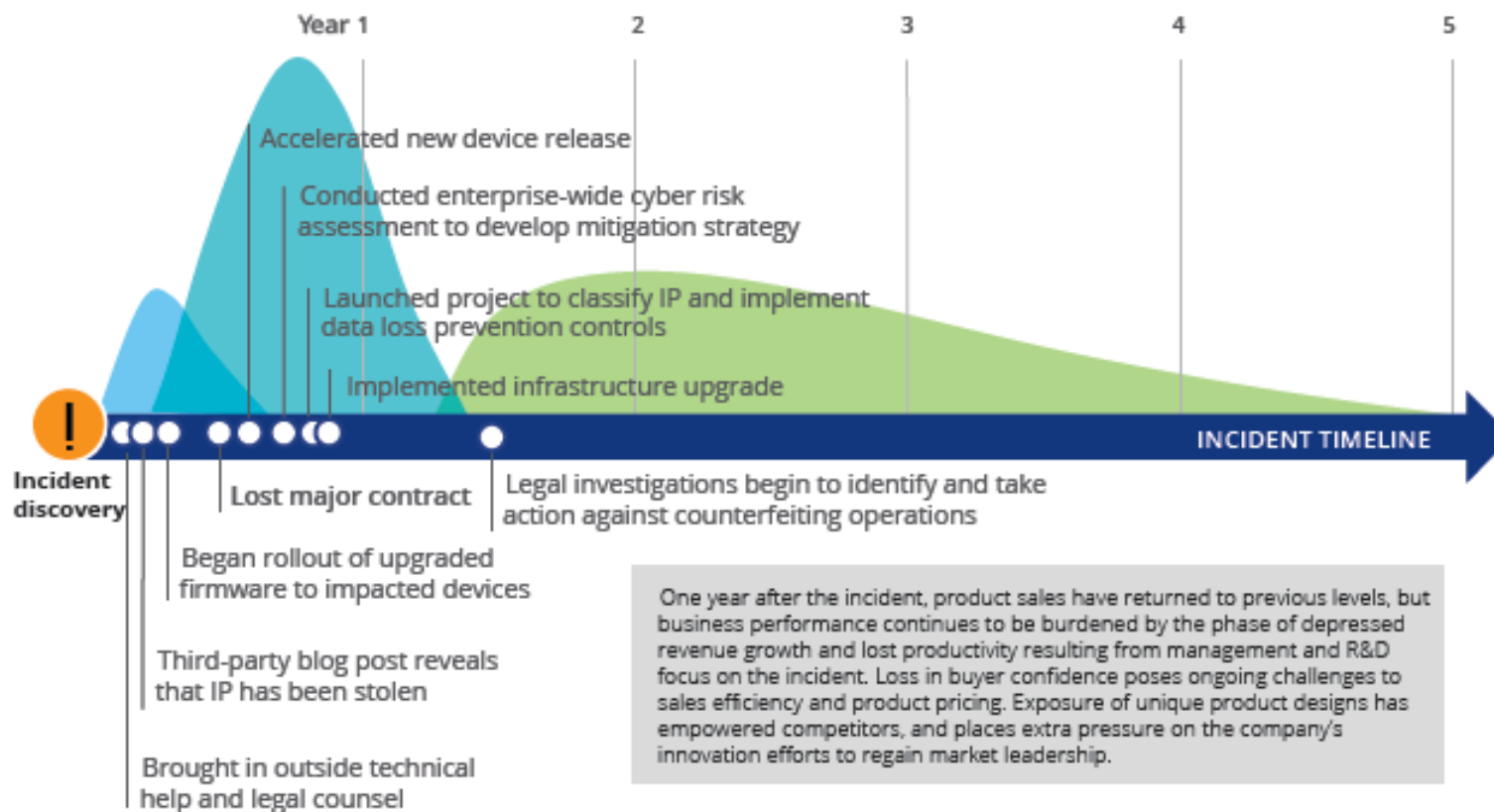
A wide range of direct and/or intangible costs contribute to the overall impact of a major cyber incident.

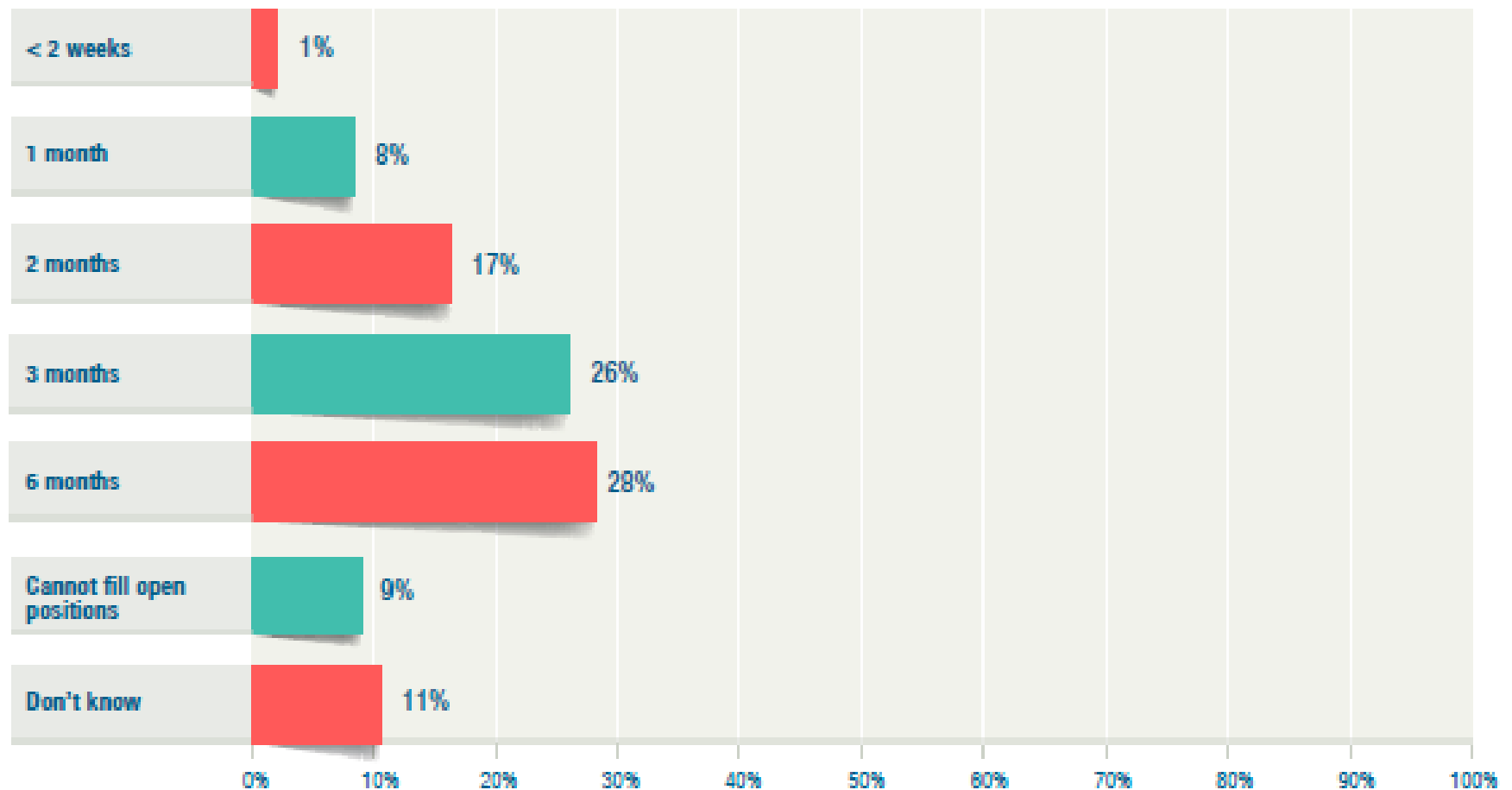Graphic: Deloitte University Press | DUPress.com

Note: Impact curves illustrate the relative magnitude of costs as they are incurred across the three phases of the response process.

Graphic: Deloitte University Press | DUPress.com
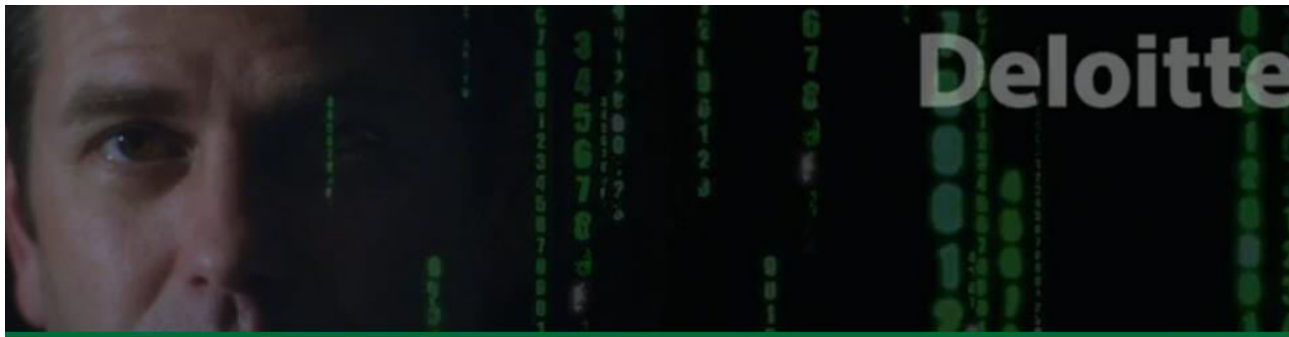
SO HOW LONG DOES IT TAKE TO FIND SUPPORT

Time	Percentage
< 2 weeks	1%
1 month	8%
2 months	17%
3 months	26%
6 months	28%
Cannot fill open positions	9%
Don't know	11%

A company like yours

Let's watch a short video

http://www2.deloitte.com/global/en/pages/risk/articles/cybervideo-companies-like-yours.html

Insights

Cyber video: Companies like yours

Deloitte has created a short film to illustrate the complex topic of cyber security and help organizations understand the huge impact a cyber attack could have.

Explore Content

Impact of a Cyber Attack

More topics

CYBER ATTACKS ARE BECOMING AN EVERY-DAY OCCURRENCE… YET THERE STILL AREN'T ENOUGH SKILLED PROFESSIONALS TO HELP COMPANIES PROTECT AND DEFEND THEIR ASSETS.

HOW DO WE CLOSE THE GROWING SKILLS GAP IN THE CYBER SECURITY 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.

INDIVIDUALS AND ORGANIZATIONS ALIKE NEED HELP

How can I start or advance my career?

- ✧ I need guidance and networking opportunities
- ✧ I need training and education
- ✧ I need to build my technical skillset
- ✧ I need a way to prove to potential employers that I can do the job
- ✧ I need one place to turn to for help with all of these things

How do I protect and defend my company?

- ✧ I need to build a cyber security team
- ✧ I need to hire professionals with real, technical cyber skills
- ✧ I need a way to validate that potential employees can actually do the job
- ✧ I need a way to train my internal staff
- ✧ I need guidance and access to leading research

CSX™
CYBERSECURITY NEXUS
BY ✦ISACA®

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 CYBER SECURITY 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.

Credentialing and Training
Skills-based training options, performance-based certifications

Membership
Professional, Student and Academic Advocate Memberships, local chapters

Education & Conferences
Workshops, webinars, CSX North America, CSX Europe, CSX Asia

Resources & Publications
Books, whitepapers, journal articles, blog posts, studies, thought leadership

Career Development
Cyber Security Career roadmap assessment tool, "Day in the Life" career videos

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

Our new website is the main hub for our holistic cyber security program. Explore all that CSX has to offer at **https://www.cybersecurity.isaca**

CSX OFFERS CAREER PATHWAYS FOR BOTH TECHNICAL AND MANAGERIAL ROLES

No matter where you are in the profession—university student to industry veteran—CSX can help you pave the way to a successful cyber security career. Our career progression roadmap shows you both technical and managerial career paths, with sample job titles, recommended education and suggested certifications to help you advance to the next level.

SUPERVISOR/ MANAGER

Education: Bachelor's Degree or higher (Masters recommended) in Computer Science, Information Security, Information Systems Management, Cyber Security and Information Technology or other related fields

Certifications: CISM, CISSP, CGEIT

Information Security Manager, Senior Security Analyst, IT Manager, Security Operations Center Team Lead, Cyber Security Risk Manager, Information Security Auditor

INFORMATION SECURITY OFFICER

Education: Bachelor's Degree or higher (Masters recommended) in Computer Science, Information Security, Information Systems Management, Cyber Security and Information Technology or other related fields

Certifications: CISM, CISSP, CGEIT

Information Security Director, Chief Information Security Officer, IT Director, Risk Executive

MANAGERIAL

TECHNICAL

PRACTITIONER

Intrusion Analyst, Incident Response Analyst, Application Security Tester, Network Security Engineer, Information Security Analyst

Education: Associate's Degree or Higher in Computer Science, Information Security, Information Systems Management, Cyber Security and Information Technology or other related fields

Credentials: CSX Cybersecurity Fundamentals Certificate, CSX Practitioner, CCNA Security, CEH, SSCP, Security Plus

SPECIALIST

Information Security Analyst, Incident Response Analyst, Penetration Tester, Analyst (Business Process, Requirements, Systems)

Education: Associate's Degree or Higher (Bachelor's recommended) in Computer Science, Information Security, Information Systems Management, Cyber Security and Information Technology or other related fields

Certifications: CSX Specialist: Respond, CSX Specialist: Identify, CSX Specialist: Protect, CSX Specialist: Detect, CSX Specialist: Recover, GSE, CCNP Security, LPT

TECHNICAL EXPERT

Reverse Engineer/Malware Analyst, Research Engineer, CSIRT Team Leader, Senior Forensic Analyst, Senior Cyber Security Engineer, Senior Information Security Analyst, Information Security Architect

Education: Bachelor's Degree or higher (Masters recommended) in Computer Science, Information Security, Information Systems Management, Cyber Security and Information Technology or other related fields

Certifications: CSX Expert, CCIE, GSE

EXECUTIVE PROFESSIONAL

C-Suite, Board of Directors

CSX BY ISACA

GET ON THE RIGHT TRACK WITH A PERSONALIZED CAREER ASSESSMENT

Our new Cyber Security Career Roadmap will help you understand where you are currently in your career, determine where you want to go, and help you discover what you need to do to get there.

You'll learn the next likely steps in your career path and see which certifications and educational resources might strengthen your success through each level. With just a few easy steps, this free assessment tool will leave you with a personalized plan you can refer to at any stage of your career.
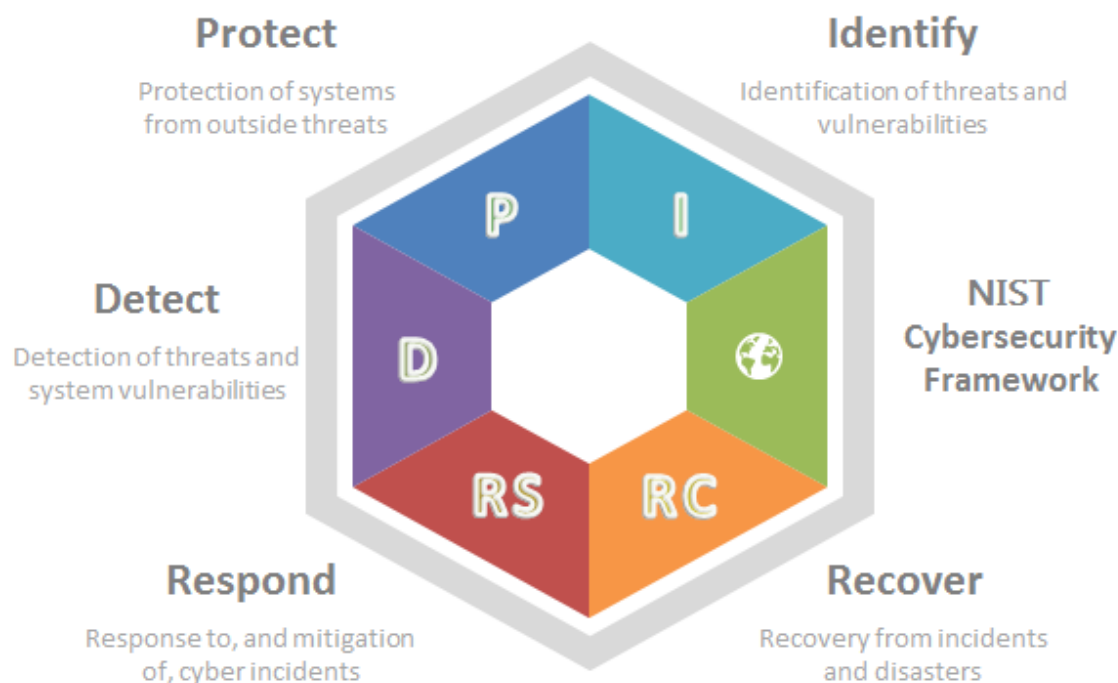
The Roadmap tool is one of the latest additions the CSX program.

The Roadmap is also helpful for university students considering a career in cyber security, and for human resources departments in organizations looking to build out their cyber security teams.

YOUR CYBERSECURITY CAREER ROADMAP

1 — YOUR BACKGROUND
2 — CURRENT SKILLS
3 — FUTURE GOALS

Complete your personalized cybersecurity career roadmap in three easy steps! Learn about what jobs you are qualified for and define your developmental goals and aspirations. The CSX career roadmap will set you up for success!

GET STARTED

CSX CYBERSECURITY NEXUS BY ISACA

CSX certifications align to existing global cyber security frameworks, including the National Institute of Standards and Technology's (NIST) Cybersecurity Framework, and test the candidate's knowledge and ability to perform tasks within the following cyber security areas in varying degrees of complexity:

Protect
Protection of systems from outside threats

Identify
Identification of threats and vulnerabilities

Detect
Detection of threats and system vulnerabilities

NIST Cybersecurity Framework

Respond
Response to, and mitigation of, cyber incidents

Recover
Recovery from incidents and disasters

THE CSX CREDENTIALING AND CERTIFATION PATHWAY

Our holistic program starts with the knowledge-based Cybersecurity Fundamentals Certificate for those who are new to the profession or looking to change careers.

This full-career program overlays with our career paths for both technical and managerial cyber security roles.
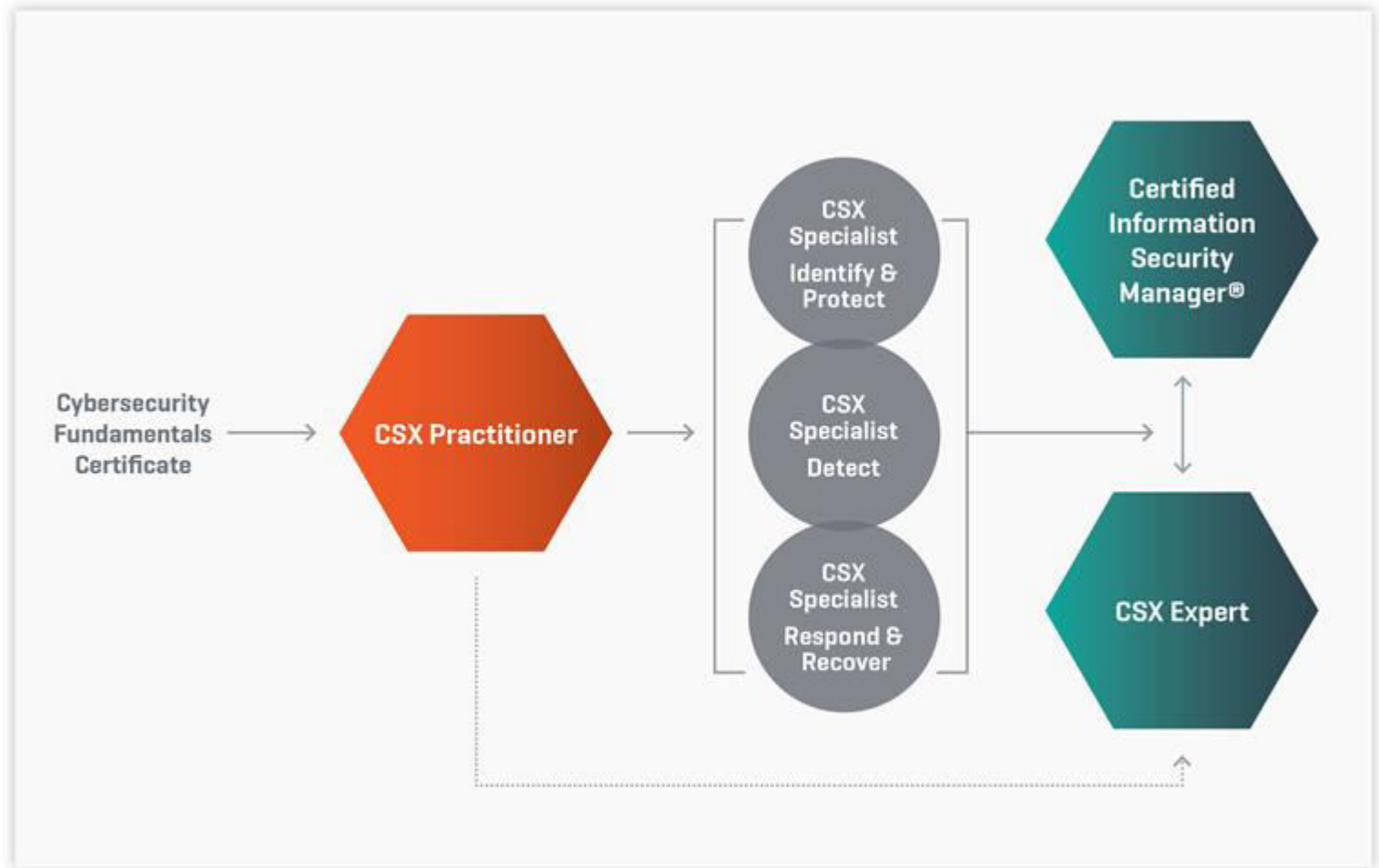
MASTER INTRODUCTORY CONCEPTS WITH CYBERSECURITY FUNDAMENTALS

The entry point into our cyber security program, our Cybersecurity Fundamentals offers a certificate in the introductory concepts that frame and define the standards, guidelines and practices of the industry. The certificate and related training are ideal for college/university students and recent graduates, those new to the field, as well as those looking to change careers.

The Cybersecurity Fundamentals exam tests for foundational knowledge across five key areas:

➢ Cyber security concepts.

➢ Cyber security architecture principles.

➢ Cyber security of networks, systems, applications and data.

➢ The security implications of the adoption of emerging technologies.

➢ Incident response

The exam is available online, and may be taken from the privacy of your home or office at your convenience.

Multiple options are available to help prepare you for the Cybersecurity Fundamentals Certificate exam: the accompanying study guide, an 8-hour online course, and 2- or 4-day workshops available during ISACA events.

CSX is helping to fill the skills gap through the development and release of our skills-based training and performance-based testing.

CSX training and certifications are designed to help individuals develop and build technical skills in critical areas of cyber security, and to validate actual skill and ability. Both our training programs and our certification exams are conducted in a live, virtual "cyber lab" environment. Training courses help students build and practice skills, and certification exams test on whether or not an individual has the skills and technical savvy to do the job.

And that's where CSX certification is a game-changers — the first vendor-neutral cyber security certification based on the testing and validation of actual technical skill, ability and performance. Whereas other certifications available today test for knowledge in a question-and-answer format, CSXP exams are conducted in a live, scenario-based "cyber lab environment" and measure technical skill and ability against job role competencies.

Because in today's world, it's not about showing you have the knowledge,
it's about getting the job done,

ADVANCE YOUR CAREER AS A CSX PRACTITIONER

CSX Practitioner is a globally-offered designation for cyber security professionals. This certification allows you to professionally serve as a first responder who is an expert at following established procedures, using defined processes, and working mostly with known problems on a single system.

As a CSX Practitioner, you'll show you have firewall, patching and anti-virus experience and can implement common security controls, perform vulnerability scans and some analysis.

Exam prerequisites: related training courses are not required to take the exam, but are recommended.

BUILD AND PRACTICE SKILLS WITHIN REAL-WORLD SCENARIOS IN A LIVE "CYBER LAB" ENVIRONMENT

CSX Practitioner training courses combine instruction with hands-on learning and practice in applying basic concepts and industry-leading methods, and in utilizing a large array of open source tools within real-world scenarios — all in a live, virtual "cyber lab" environment.
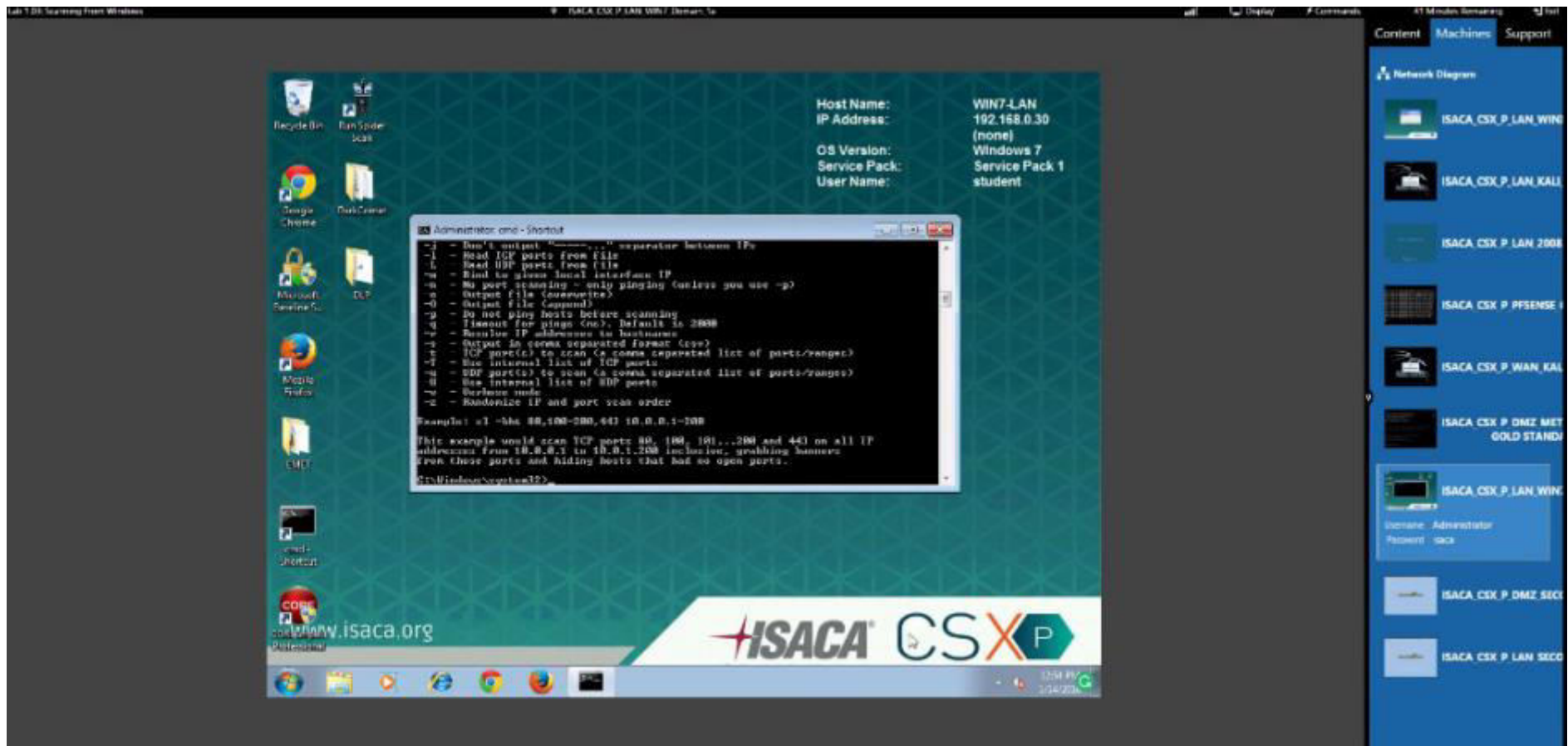
CHOOSE FROM A VARIETY OF CSX PRACTITIONER TRAINING OPTIONS

Choose program options based on current skill level, learning format and individual preferences – all conducted in our live, virtual cyber lab environment:

- **CSX Practitioner Series Courses** —Three unique, week-long courses conducted in an adaptive, performance-based cyber laboratory environment. Choose to take one based on the area you need to develop, or take all three for a comprehensive training program. These courses are offered through third-party training partners.

- **Practice Labs** — The same labs used in our CSX Practitioner Series training courses are also available for separate purchase, and are an ideal way to practice building technical skills necessary for advancing your career and sitting for the CSX Practitioner certification exam. Access your labs and practice your skills from anywhere, any time. All you need is a high-speed Internet connection.

- **CSX Practitioner Boot Camp** — A brand new, 5-day intensive, hands-on cyber security training course. This accelerated version of our more comprehensive 3 week course series is designed for professionals with an intermediate skill set and is focused on more complex, technical cyber skills and scenarios. Each day covers specific skills aligned with globally-recognized NIST Cybersecurity Framework domains: Identify, Protect, Detect, Respond and Recover. This course cover 45% of labs within our 3 week course series.

- **Onsite Workplace Training** — Let us bring the training classes to you! Our onsite training courses are ideal for organizations looking to train an entire department or build cyber security teams.

CSX Practitioner Series courses, Boot Camp and Onsite Training options provide you with a complimentary 6-month subscription to the virtual cyber lab environment in order to continue practicing and building your technical skills, utilizing the labs and tools covered during the training.

NETWORK AND LEARN WITH CSX CONFERENCES

Join the leading cyber security experts from around the world during three global CSX Conferences in 2016. 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.
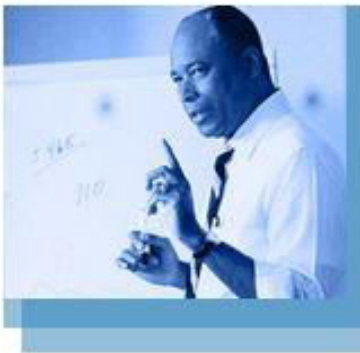

Don't miss special events like:

➤ Women in Cyber

➤ Sessions for Students

➤ Cyber Hacking Competition

➤ And more!

INDUSTRY LEADING GUIDANCE 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, with minimal travel or downtime for your employees. 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.

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 is 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.

CSX BY ISACA
CYBERSECURITY NEXUS

SO AS WE CONCLUDE

Let's watch a short video

SUBSCRIBE TO THE NEXUS

http://www.pages01.net/isaca/CSX_Forms/CSX_Newsletter/?cid=edmi_1205474&spMailingID=13442106&spUserID=MTE4MTI5NDc4MjEyS0&spJobID=823510573&spReportId=ODIzNTEwNTczS0

For more information, visit us at
https://cybersecurity.isaca.org