The impact and sophistication of cybersecurity threats have created a global demand for talent that is outpacing the supply. To help fill the growing cybersecurity skills gap, ISACA created Cybersecurity Nexus (CSX) to provide cybersecurity guidance, training, credentials and career development for professionals at every stage of their careers, and to help enterprises develop their cyber workforce.

CSX represents ISACA's commitment to help address the global need for skilled cybersecurity professionals. According to the ISACA State of Cyber Security 2017 research, it takes most enterprises three months or longer to fill open cybersecurity positions, and only 13 percent of organizations receive 20 or more applicants for open cybersecurity positions. Reports indicate a global shortage of two million security professionals worldwide.

CSX is an innovative, holistic resource for cybersecurity solutions, including:

## Cybersecurity Training and Education

Most respondents to a recent ISACA survey said they believe traditional cybersecurity training options leave staff only moderately prepared to unprepared for today's cyber threats. In April 2017, ISACA changed how cybersecurity training is delivered by launching the Cybersecurity Nexus (CSX) Training Platform.

The on-demand, performance-based training and assessment tool, conducted in live environments using real-world threat scenarios, is the first of its kind. The platform offers learners an easily accessible, constantly updated education environment that gives administrators clear insights into employee performance, allowing organizations to ensure that they hire and retain the best talent on the front lines of cybersecurity defenses.

ISACA's CSX North America 2018 and CSX Europe 2018 events bring together cybersecurity leaders for educational sessions and networking and provide step-by-step solutions tailored to cybersecurity professionals at every level of their careers.

Additionally, ISACA offers cybersecurity education through the Cybersecurity Fundamentals, offered online and through in-person workshops held by local chapters, training weeks, webinars and virtual conferences.

## Cybersecurity Credentials

Through CSX, ISACA offers credentialing for cybersecurity professionals, including:

### Cybersecurity Fundamentals Certificate

This knowledge-based certificate is designed for recent college/university graduates and those looking for a career change to cybersecurity as it enables them to demonstrate an understanding of cybersecurity basics.

The certificate is aligned with the National Institute of Standards and Technology (NIST), and National Initiative for Cybersecurity Education (NICE), which is reflective of global cybersecurity issues, activities and job roles. The certificate also aligned with the Skills Framework for the Information Age (SFIA).

The Cybersecurity Fundamentals Certificate online exam tests for foundational knowledge in cybersecurity across five key areas:
- Cybersecurity concepts
- Cybersecurity architecture principles
- Cybersecurity of networks, systems, applications and data
- Incident response
- Security of evolving technology

### CSX Practitioner (CSXP)
The first performance-based cyber security certification, CSX Practitioner enables candidates to demonstrate the ability to be a first responder to cyber incidents, following established procedures and defined processes. CSXP indicates firewall, patching and anti-virus experience, as well as the ability to implement common security controls and perform vulnerability scans and analysis.

To maintain certification, CSXPs must attain and report continuing professional education (CPEs) each of the first two years and retest in year three.

The CSX Practitioner Certification (CSXP) exam has been updated for 2018 to reflect the job tasks of today's cybersecurity practitioner and has transitioned to remote proctor delivery.

CSXP was named *SC Magazine's* 2016 "Best Professional Certification Program" in the Professional Awards category, and was named a finalist in 2018.

### Certified Information Security Manager
Certified Information Security Manager® (CISM®) is a management-level credential for those who manage, design, oversee and assess an enterprise's information security program.

### Cybersecurity Research and Guidance
Through CSX, ISACA has issued practical guidance for implementing the U.S. Cybersecurity Framework and the European Union Cybersecurity Strategy, how enterprises can defend against emerging cyber threats and addressed many other relevant topics for cyber security practitioners and their enterprises.

The CSX Threat Watch is updated daily to help organizations stay up to date with the latest cybersecurity challenges.

Contact: communications@isaca.org
Laurel Nelson-Rowe, +1.847.660.5566
Kristen Kessinger, +1.847.660.5512
Michelle Micor, +1.847.385.7217
Jay Schwab, +1.847.660.5693