CYBERSECURITY NEXUS™ (CSX)
The Premier Source For Cyber Security Knowledge and Expertise
In enterprise IT, there is a single point where everything that matters in information, technology and business converges: **Cybersecurity Nexus (CSX)**, a global security knowledge platform and professional program from ISACA.

**PROTECT AND DEFEND YOUR ORGANIZATION.**

When it comes to security breaches and cyber-attacks, it is often not a matter of if an organization will experience an attack, but when it will happen. Yet, an overwhelming number of organizations still feel ill-equipped to handle an attack and the need for skilled cyber security professionals continues to grow exponentially.

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.

With CSX, business leaders and cyber professionals can obtain the knowledge, tools, guidance and connections to be at the forefront of a vital and rapidly changing industry. Because Cybersecurity Nexus is at the center of everything that’s coming next.

**Cybersecurity Nexus: Building a Stronger Cyber Security Workforce**

Cybersecurity Nexus (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 will help you gain the knowledge and skills to get the job done and give you the guidance to keep your career moving in the right direction. Our holistic program serves as a premier, one-stop source for all things cyber security:

- Skills-Based Training
- Performance-Based Certification
- Global Conferences, Educational Programs and Networking
- Career Development
- Thought Leadership
- Tools and Resources
- Membership
- And Much More!

**CSX is designed to stay with you for your entire career**

No matter where you are in the profession — university student to foremost cyber expert — CSX can help you pave the way to a successful cyber security career. Our full-career credentialing program is designed around career paths for both technical and managerial cyber security roles.

The program starts with the knowledge-based Cybersecurity Fundamentals Certificate for those who are new to the profession or looking to change careers, and progresses to center on our performance-based certifications at the Practitioner, Specialist and Expert levels.

“It is often not until [businesses] have been hit that they realize there is an issue and a need to be proactive and to put resources into this area.”

Jo Stewart-Rattray, CISA, CISM, CIGEIT, CRISC, FACS CP, director of information security and IT assurance, BRM Holdich
CSX credentialing programs align to existing global cyber security frameworks. Cybersecurity Fundamentals tests knowledge of foundational concepts and our certifications test the candidate’s ability to perform tasks within the following cyber security areas in varying degrees of complexity:

- **Identify**: Identification of threats and vulnerabilities
- **Protect**: Protection of systems from outside threats
- **Detect**: Detection of threats and system vulnerabilities
- **Respond**: Response to, and mitigation of, cyber incidents
- **Recover**: Recovery from incidents and disasters

Each level of certification is differentiated by competency, and the levels are progressive in nature — with scenarios increasing in complexity and sophistication the higher the level. All levels assume an understanding of knowledge and concepts covered in Cybersecurity Fundamentals.

**Let Us Help You Get Where You’re Going**

Get started with our Cyber Security Career Roadmap. This interactive tool 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 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.
The Certificate is aligned with the National Institute of Standards and Technology (NIST) National Initiative for Cybersecurity Education (NICE), which is compatible with global cyber security issues, activities and job roles. The Certificate is also aligned with the Skills Framework for the Information Age (SFIA).

The exam is available online, and may be taken from the privacy of your home or office at your convenience. Simply schedule the date and time that works for you, and your exam will be remotely proctored.

Multiple options are available to help prepare you for the Cybersecurity Fundamentals Certificate exam:

**Cybersecurity Fundamentals Study Guide**
An excellent stand-alone publication for individual study of the core concepts and terms that frame and define the fast-changing and increasingly important field of cyber security, the guide was compiled and written by cyber security experts. The guide explores in detail the five key areas covered in the exam and includes self-assessment questions and explanations of the answers.

**Cybersecurity Fundamentals Online Course**
Learn online, at your own pace, with the 8-hour Cybersecurity Fundamentals Online Course. Ideal if you’re just entering the field or looking to change careers and need to gain an understanding of foundational concepts and terminology, and the integral role of cyber security professionals in protecting enterprise data and infrastructure. The Course is recommended for newcomers to the field who would like to prepare for the Cybersecurity Fundamentals Certificate exam. You can also earn 8 Continuing Professional Education (CPE) credits by taking the Course.

**Cybersecurity Fundamentals Workshops**
Two- and four-day workshops offering in-person instruction on the foundational concepts and principles of cyber security are offered during many of ISACA’s conferences and events. Fundamentals Workshops are a great way to earn CPE credit and prepare for the Cybersecurity Fundamentals Certificate exam.

**Cybersecurity Fundamentals On-Site Workplace Training**
Strengthen your workforce with on-site training customized specifically for your employees. Our Cybersecurity Fundamentals On-Site Training brings expert cyber security instructors right to you. Train your entire team in one or more sessions at one fixed price, with minimal downtime and limited or no travel. In addition to preparing students for the Cybersecurity Fundamentals Certificate, on-site training enables attendees to gain valuable CPE hours.

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**CSX CERTIFICATIONS**

**Advance Your Career With CSX Skills-Based Training And Performance-Based Certifications**
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 certifications are game-changers — the first vendor-neutral cyber security certifications 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, CSX exams are conducted in a live, adaptive, scenario-based 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.*

**CSX | Practitioner Certification**
As the first performance-based certification in the CSX credentialing and certification path, the award-winning* CSX Practitioner Certification demonstrates its holder’s ability to serve in the globally in-demand role of a professional cyber security first responder:

> Capable of following established procedures
> Proficient in using defined processes
> Able to work with known problems on a single system

This globally available designation affirms that 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 below are not required to take the exam, but are highly recommended.

A CSX Practitioner certification is required to sit for any of the CSX Specialist exams, as well as the CSX Expert exam (coming soon).

*CSX Practitioner is the 2016 SC Magazine Award Winner for Best Professional Certification Program*
Build and Practice Your Technical Skills With CSX Practitioner Training Programs

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 “cyber lab” environment. Each training option will help you build the critical skills necessary to be successful in a variety of cyber security roles and to earn the CSX Practitioner certification. Training programs are not required to sit for the CSX Practitioner certification exam, but are strongly recommended.

CSX PRACTITIONER SERIES COURSES
The series consists of three unique, week-long courses aligned with existing global frameworks, including the NIST Cybersecurity Framework. Each course is 5 days and combines lecture with hands-on lab time, and includes a 6-month subscription to the labs used in the course.

CSX Practitioner Course 1: Identification and Protection
Focuses on concepts and skills needed to recognize, assess and remediate specific internal and external network threats, and to implement cyber security controls to protect a system from identified threats.

CSX Practitioner Course 2: Detection
Centered on building skills to leverage cyber security controls to identify system events and non-event level incidents, and to detect potential network events and incidents.

CSX Practitioner Course 3: Respond and Recover
This course focuses on skills required to draft and execute comprehensive incident response plans, including maintaining proper isolation and incident response information and documentation.

CSX PRACTITIONER 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 your technical skills and prepare for the CSX Practitioner certification exam. Access your labs and practice your skills from anywhere you have a high-speed internet connectivity, any time.

Introducing CSX Practitioner Boot Camp!

The CSX Practitioner Boot Camp is a brand new, 5-day intensive 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 in the immersive Boot Camp covers specific skills aligned with globally-recognized NIST Cybersecurity Framework domains: Identify, Protect, Detect, Respond and Recover. Each area covered in the course is matched with practice labs and tools, and you will receive a complimentary 6-month subscription to the virtual cyber lab environment where you can continue practicing and building your technical skills.

Building complex and advanced technical skills in each functional area will help you prepare to sit for the CSX Practitioner certification exam, and help you develop skills essential to advancing your career.

The CSX Practitioner Boot Camp is intended for professionals established in the cyber security field — with a minimum of one to five years of experience. Individuals wishing to register for CSX Practitioner Boot Camp should already demonstrate proficiency in the following areas:

- Network Scanning
- Specialized Port Scans
- Network Topologies
- Network Log Analysis
- Centralized Monitoring
- Hotfix Distribution
- Vulnerability Scanning
- Traffic Monitoring
- Compromise Indicators
- False Positive Identification
- Packet Analysis
- User Account Controls

Those just entering the cyber security field, or who are newer in their cyber security roles, should consider the more comprehensive 3-week series of CSX Practitioner courses: CSX Practitioner Course 1: Identification and Protection, CSX Practitioner Course 2: Detection and CSX Practitioner Course 3: Respond and Recover.
CSX | Specialist Certifications

The CSX Specialist series will offer you the opportunity to pursue a certification in a specialty area — allowing you to demonstrate deep knowledge and ability in that domain. Choose from three independent certifications that cover Identify, Protect, Detect, Respond and Recover domains. These certifications build on the skills developed in CSX Practitioner and test advanced concepts in each of the domains.

Each certification in the Specialist series will be paired with a 5-day training course designed to teach the skills needed to practice at a CSX Specialist level in that particular area. Each course combines lectures with at least 50% hands-on lab exercises in a virtual cyber lab environment.

CSX | Specialist: Identify and Protect
Specialists within the Identify and Protect domain are able to analyze and assess cyber threats against multiple levels of infrastructure, from host to system-level, using industry-accepted methods and tools. They are able to implement proper cyber security controls in order to protect systems and networks.

CSX | Specialist: Detect
Specialists within the Detect domain are able to distinguish network and system incidents and events by identifying compromise indicators, assessing potential damage and providing appropriate data to first response teams.

CSX | Specialist: Respond and Recover
Specialists within the Respond and Recover domain are able to develop, implement and maintain unique incident response plans, as well as have a familiarity with response techniques and be able to properly communicate events and incidents. They are able to develop, implement and maintain recovery plans, as well as have the ability to use specialized integrity evaluation and backup dispersion tools, provide service restoration and its associated support tasks.

CSX | Expert Certification

A CSX Expert certification will help you establish your standing as a master-level technical security professional capable of identifying, analyzing, responding to and mitigating the most complex cyber security incidents — usually in intricate enterprise environments that pose significant exposure to attacks.

CSX Experts serve as the authoritative source for all cyber security matters within an organization and approve cyber security controls. Experts are ultimately responsible for root cause analysis and correlation for evaluating business impact. They work with senior management to maximize organizational cyber security successes and communicate business impacts related to cyber issues, and serve as team leaders for incident response and disaster recovery.

EXAM PREREQUISITES: A CSX Practitioner certification is required to sit for the CSX Expert exam.

A CSX Expert 5-day training course will be available to help professionals build master-level technical skills and prepare for the CSX Expert certification exam. The course will combine lectures with at least 50% hands-on lab exercises conducted in a virtual cyber lab environment.

Certified Information Security Manager® (CISM®)

Demonstrate your information security management expertise with the globally accepted standard of achievement in this area. The uniquely management-focused CISM certification promotes international security practices and recognizes the individual who manages, designs and oversees and assesses an enterprise’s information security. CISMs understand the business. They know how to manage and adapt technology to their enterprise and industry.

A CISM certification demonstrates your understanding of the relationship between an information security program and broader business goals and objectives. It distinguishes you as having not only information security expertise, but also knowledge and experience in the development and management of an information security program. Enterprises and government agencies increasingly recognize, require and expect their IS and IT professionals to hold a CISM certification.
A number of training resources are available to help you prepare for the CISM exam:

**CISM Review Manual**
A comprehensive reference guide designed to assist individuals in preparing for the CISM exam and individuals who wish to understand the roles and responsibilities of an information security manager. The latest, enhanced edition is a current, comprehensive, peer-reviewed information security management global resource.

**CISM Review Questions, Answers & Explanations Manual**
This helpful resource consists of 950 multiple-choice study questions, answers and explanations, which are organized according to the CISM job practice domains and intended to introduce the CISM candidate to the types of questions that appear on the CISM exam.

**CISM Review Questions, Answers and Explanations Database – 12 Month Subscription**
This comprehensive 950-question online database allows you to take sample exams with randomly selected questions and view the results by job practice domain, allowing for concentrated study in particular areas. Questions generated during a study session are sorted based on previous scoring history, allowing you to identify your strengths and weaknesses and focus study efforts accordingly.

**Get Certified And Set Yourself Apart**
CSX certifications are testaments to real-life skills and excellence and show employers that you have not just the knowledge, but the ability to walk into an organization and actually do the job from day one.

Globally accepted and recognized, CSX certifications:
- Validate skills critical to real-life cyber security scenarios
- Signify higher levels of credibility to employers and organizations
- Increase professional recognition by peers and colleagues
- Provide credibility needed for career mobility

In addition, independent studies consistently rate ISACA’s designations among the highest paying and highly regarded IT certifications, and CSX certifications are designed to carry on that tradition.

**Utilize Interactive CSX Tools For Help In Critical Cyber Security Areas**
One of our first interactive cyber security tools, available on our CSX web site, Threats & Controls helps you better understand critical cyber threats to global enterprises and discover which controls best defend against these specific threats.

Quickly identify 72 key controls to counter many of today’s top cyber security threats in areas that include social engineering, insider threats, advanced persistent threats, cybercrime, DDoS, Malware and many more. This free tool is invaluable to anyone needing a deeper understanding of the current and future cyber threat environment and its impacts on their information systems role. You’ll be better prepared to minimize and mitigate growing cyber threats, enhance your expertise and easily share what you learn with colleagues to increase your influence and ready your career for advancement.

**Network And Learn With Global CSX Conferences**
Join the leading cyber security experts from around the world at 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.
No one said becoming the best would be easy. Cybersecurity Nexus will help you achieve your career goals with rigorous, cutting-edge training and educational opportunities. From online training and virtual events, to in-depth courses and workshops and on-site training, you’ll find what you need to build, grow and elevate your career, no matter what your level of experience may be.

In addition to the skills-based training courses offered with CSX certifications, we offer the following programs:

**CSX Webinar Series**
Catch a free, 60-minute CSX webinar each month. Sessions are presented live by renowned subject matter experts who provide cutting-edge thought leadership, research, and advice on current and emerging cyber security threats, and discuss the tools necessary for succeeding in the ever-changing world of cyber security. You can also view archived webinars for up to a year from their live presentation date.

**Virtual Conferences**
Get an authentic CSX conference experience anywhere with our online conferences. Featuring virtual exhibit and conference halls, networking lounges, as well as resource centers, online conferences provide a valuable and convenient way to expand your knowledge.

**Implementing NIST Cybersecurity Framework Using COBIT 5 – On-Site Workplace Training**
This course is focused on the Cybersecurity Framework (CSF) — its goals, the implementation steps, and the ability to practically apply this information in your organization. Developed for individuals who have a basic understanding of both COBIT 5 and security concepts, and who are involved in improving the cyber security program for their enterprises.

**COBIT 5 Assessor for Security – On-Site Workplace Training**
Modeled on our popular COBIT 5 Assessor Course, with a specific focus on cyber security, this course provides a basis for assessing an enterprise’s process capabilities against the COBIT 5 Process Reference Model (PRM). Evidence-based to enable a reliable, consistent and repeatable way to assess IT process capabilities, this model helps IT leaders gain C-level and board member buy-in for change and improvement initiatives.

**CSX News**
Keep up on the latest news and trends in the industry with online, curated news articles available on the CSX web site.

**The Nexus Newsletter**
Stay ahead of the ever-changing cyber landscape with our new CSX newsletter, The Nexus. Sign up for free on the CSX web site.

To learn more about all of our CSX programs, visit [https://cybersecurity.isaca.org](https://cybersecurity.isaca.org)