

# THE COMPLETE GUIDE TO CYBERSECURITY



## WHAT YOU NEED TO KNOW ABOUT A CAREER IN CYBERSECURITY



# ABOUT EAST OHIO COLLEGE

East Ohio College (EOC), previously Ohio Valley College of Technology, has been an educational establishment in Northeastern Ohio since its founding in 1886 in East Liverpool. The college provides an array of career-focused programs, such as nursing, allied healthcare, and professional services, and dedicates itself to delivering a well-rounded educational experience that equips students for successful careers.

With the introduction of East Ohio College's online platform in 2022, the college continues its tradition of adapting to meet the evolving needs of its students and the community. Online courses are designed with some flexibility, offering courses that allow students to balance family, work, and college. This approach ensures that students can pursue their educational goals without sacrificing their other commitments.

At East Ohio College, students can expect an educational setting where instructors are genuinely dedicated to their success. By upholding our core values of WE CARE, we are devoted to our mission of fostering change by creating opportunities.



# ACCREDITATION & LICENSING

East Ohio College is accredited by the Accrediting Bureau of Health Education Schools, 6116 Executive Blvd, Suite 730, North Bethesda, MD 20852 (ABHES). Phone: (301) 291-7550.

The College is registered with, and its degree programs are authorized by the Ohio State Board of Career Colleges and Schools, 30 East Broad Street, Suite 2481, Columbus, Ohio 43215-3138, Phone (614) 466-2752, John Ware, J.D., Executive Director. Registration #1555B. The Boardman Training Center is also registered with and its programs are authorized by the Ohio State Board of Career Colleges and Schools. Programs offered at the Boardman Training Center are NOT ABHES accredited.

Each state and US territory has its own standards to sit for the professional certification/licensure exam and/or to transfer a license from one state/territory into its state/territory. The document linked HERE provides you a list of those states and territories where this institution has made the determination that its curriculum either meets the educational requirements for certification/licensure or does not meet the educational requirements for certification/licensure.



# WHAT IS CYBERSECURITY?

Cybersecurity is an expanding field focused on data defense and digital protection amid increasing technology use. Qualified professionals are essential for preventing and recovering from cyber threats like hacking and malware. Their roles include identifying risks, implementing security measures, monitoring incidents, and more.

The core concepts of cybersecurity are Protection, Detection, and Recovery, allowing professionals to assess weaknesses, defend data, and recover lost information.

Cybersecurity has become a vast and ever-evolving field, presenting opportunities. The Bureau of Labor Statistics (BLS)\* predicts that Computer and Information Technology roles are projected to see an average of 356,700 job openings annually. With the proper training, skills, and expertise, the career prospects for cybersecurity professionals appear limitless.

**PROTECTION,  
DETECTION,  
RECOVERY.**



**IMPLEMENT  
SECURITY PLANS**

**IDENTIFY  
POTENTIAL RISKS**

**PROTECT AGAINST  
HACKING**

*\*BLS statistics are national averages. Employment growth will vary by state and region and should be considered before making an enrollment decision.*

# EAST OHIO COLLEGE'S ACADEMIC PROCESS

East Ohio College follows a comprehensive six-step process to support every student throughout their academic journey, ensuring they receive high-quality career training.



## Step 1: Plan

Students will collaborate with their admissions team member to strategize their educational path.



## Step 2: Equip

Students will receive the necessary tools to explore financial aid^ options to fund their education.



## Step 3: Learn

Students will begin taking courses to acquire essential skills and knowledge relevant to their future professions.



## Step 4: Enhance

Students will advance their education by preparing to sit for industry-specific certification\* exams.



## Step 5: Apply

Students will put their skills and knowledge into practice during an externship.



## Step 6: Succeed

Students will graduate and embark on their new careers.

*^For those who qualify.*

*\*Certification is contingent upon passing the corresponding certification exam.*

# EAST OHIO COLLEGE'S CYBERSECURITY PROGRAM

With a curriculum that combines theoretical knowledge and hands-on experience, students gain the skills necessary to tackle real-world cyber threats. The program covers essential topics such as network security, ethical hacking, data protection, and risk management, ensuring graduates are well-equipped to protect organizations against increasingly sophisticated cyber attacks. Graduates will be equipped with the skills, knowledge, and experience needed to pursue entry-level cybersecurity positions, enhancing their employability and opening doors to rewarding career opportunities in the fast-growing field of cybersecurity.

East Ohio College's Cybersecurity program covers essential skills and concepts, including the following:



**Incident Response**



**Threat Management**



**Gap Assessment**



**Security Architecture**



**Data Configuration**



**Virtual Tool Sets**

Additionally, graduates will be prepared to sit for crucial industry CompTIA certification\* exams that demonstrate their expertise to prospective employers. After finishing their training, graduates will receive a Specialized Associate of Applied Business - Cybersecurity degree.

*\*Certification is contingent upon passing the corresponding certification exam.*

# EAST OHIO COLLEGE'S CYBERSECURITY PROGRAM

East Ohio College's online Cybersecurity program is specifically designed to equip students for entry-level roles in the cybersecurity field within two years or less. The 18-month program is primarily conducted online, with the potential for an in-person externship experience.

EOC's cybersecurity training is an excellent choice for those with an interest in computers and technology, although no prior knowledge is required for enrollment. The curriculum includes virtual lectures covering the essentials of technology, cybersecurity, and data protection. To further enrich the learning experience, EOC incorporates virtual cybersecurity simulations, allowing students to practice the techniques they will utilize in their future careers.

One significant advantage of attending East Ohio College for your associate degree is our direct admission approach to cybersecurity education. Upon being accepted into the Cybersecurity program, students will start taking the following courses.

- **Systems Diagnostics and Analysis**
- **Systems Diagnostics and Analysis II**
- **Linux Essentials**
- **Ethical Hacking and Penetration Testing**
- **Advanced Ethical Hacking and Penetration**
- **Networking Fundamentals**
- **Networking Fundamentals II**
- **Networking Fundamentals III**
- **Information Security Fundamentals**
- **Information Security Fundamentals II**
- **Information Security Fundamentals III**
- **Cybersecurity Defense**
- **Cybersecurity Defense II**
- **Cybersecurity Defense III**
- **Cybersecurity Topics**
- **Cybersecurity Externship**
- **Research and Writing**
- **Effective Communication**
- **English Composition**
- **Current Events**
- **Logic and Critical Thinking**
- **Psychology**
- **Student Success Strategies**
- **Career Preparation**

# COMPUTING TECHNOLOGY INDUSTRY ASSOCIATION

The Computing Technology Industry Association<sup>^</sup> (CompTIA) is a leader in delivering education, certification, and training within the information technology sector. Since its foundation in 1982, CompTIA has issued more than 2.5 million certifications to professionals working in cybersecurity, networking, cloud computing, and technical support fields.

As the industry progresses, it is essential for cybersecurity professionals to keep their skills and training up to date. Certifications\* must be renewed every three years by either completing a single training activity or multiple continuing education training sessions through CompTIA.

Additionally, CompTIA provides resources for individuals contemplating a career transition into the information technology field. Their career path planning tool outlines five common roles: IT Support Specialist, Network Specialist, Cybersecurity Specialist, Data Specialist, and Software & Web Developer.



*\*Certification is contingent upon passing this industry certification exam.*

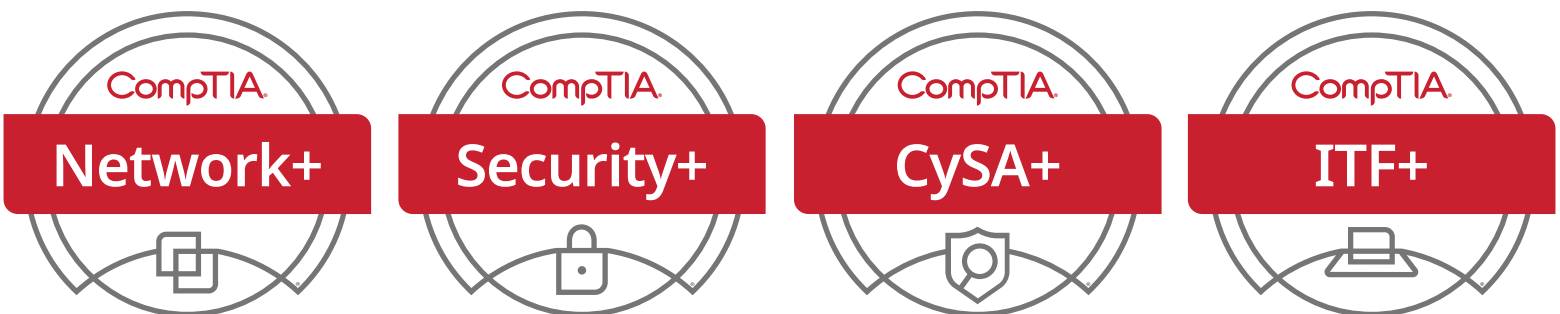
*<sup>^</sup>CompTIA is an independent certifying entity. It is not affiliated with or connected to East Ohio College in any manner.*

# COMPTIA CERTIFICATIONS

East Ohio College recognizes the significance of entering the job market equipped with hands-on experience and relevant certifications\*. As noted by CompTIA, cybersecurity certifications hold great value as they confirm that a prospective employee meets the industry's knowledge and skill standards. Certain fields, such as government and defense contracting, require these certifications to ensure the employee has the skills and knowledge to complete the job proficiently.

EOC's online Cybersecurity program equips students to take four CompTIA certification\* exams: Network+ Certification\*, Security+ Certification, Cybersecurity Analyst+ (CySA+)\* Certification, and IT Fundamentals+ Certification.

The blend of an associate degree from East Ohio College along with CompTIA certifications\* demonstrates to employers that you have vital skills and knowledge, showcasing your dedication to continuous learning in the cybersecurity field and opening up a range of potential career paths.



*\*Certification is contingent upon passing this industry certification exam. Included in Tuition/Fees.*

# BENEFITS OF EAST OHIO COLLEGE

At East Ohio College, the student experience is our top priority. We understand that students balance family, work, and their studies. Below are four key advantages of selecting EOC for your cybersecurity education.

## ACCELERATED TRAINING



### Accelerated Training

The curriculum at East Ohio College is structured in an accelerated format. Instead of adhering to traditional semester schedules with lengthy breaks, students progress through their courses in six-week intervals. This approach enables them to absorb more material within a shorter period. Students should anticipate a rigorous academic experience and can contact the academic team for support whenever necessary.

## DIRECT ADMISSION



### Direct Admission

East Ohio College utilizes a direct admission educational model that allows students to save time and money by beginning courses directly linked to the Cybersecurity program immediately upon acceptance. This strategy enables students to skip many general education courses that do not pertain to their cybersecurity training.

# BENEFITS OF EAST OHIO COLLEGE

## HANDS-ON EXPERIENCE



## Hands-On Experience

Cybersecurity students at East Ohio College acquire essential knowledge and skills through engaging virtual lectures, which are then applied in instructor-designed virtual simulations. As students progress through the program, the EOC career management team assists them in securing a cybersecurity externship with a real employer, enabling them to apply their skills and knowledge in a professional environment.

## STUDENT SUPPORT



## Student Support

EOC offers students access to valuable support resources via the career management department throughout their studies and after graduation. Our career management team provides a range of professional and academic guidance, including resume writing, job placement, career planning, and more. Additionally, EOC alums have continued access to the career management team, which includes job placement support and industry refresher courses<sup>^</sup> at no additional tuition cost.

*<sup>^</sup>Career Management Services are subject to specific conditions and requirements and continued campus operations. Please see the campus catalog for complete details.*

# FREQUENTLY ASKED QUESTIONS

**Q:** What is cybersecurity?

**A:** Cybersecurity involves safeguarding data, ensuring digital security, and maintaining network safety. Cybersecurity experts can defend against various threats, including malware, ransomware, and phishing attacks.

**Q:** Do you need certifications for cybersecurity jobs?

**A:** According to CompTIA, cybersecurity certifications\* are essential in some industries and always enhance a candidate's resume, demonstrating their skills and knowledge to employers.



**Q:** How to get started in cybersecurity?

**A:** Step one in starting a cybersecurity career is to select a comprehensive training program, such as EOC's Cybersecurity program, which features virtual courses, simulations, an externship, and certification\* preparation.

**Q:** Is cybersecurity a good career?

**A:** A career in cybersecurity offers great opportunities for technology and data security enthusiasts. The Bureau of Labor Statistics<sup>^</sup> projects an 11% increase in job openings in computer-related fields over the next decade.

*\*Certification is contingent upon passing this industry certification exam.*

*^BLS statistics are national averages. Employment growth will vary by state and region and should be considered before making an enrollment decision.*

***Certifying entities are independent and not affiliated with or connected to East Ohio College in any manner.***

# WHY CHOOSE EAST OHIO COLLEGE?

Every member of the East Ohio College (EOC) team is committed to supporting the success of each student. Explore firsthand reviews from EOC students and graduates about their journeys, and find out how our institution can transform your life!

**"The instructors are understanding and take an interest in students personal lives in addition to their ambitions."**

-Paige Foreman

**"I really enjoy being a student at EOC. The class schedule is very convenient."**

-Evan Kovacevic

**"The online courses are made very easy to navigate and communicate with teachers. I'm thankful for EOC."**

-Cristina Kathleen

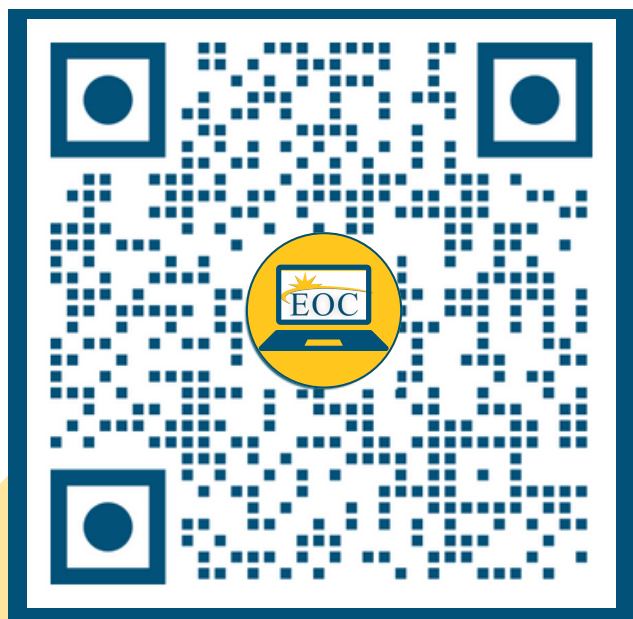
**"Love the environment, everyone is helpful and supportive. I also enjoy how fast the program is and fits in my life schedule."**

-Alexis Prosek

# YOUR CYBERSECURITY CAREER IS POSSIBLE!

Cybersecurity professionals are essential in a world that is heavily reliant on technology. They are necessary to keep businesses and personal data safe against digital threats.

Our accelerated 18-month associate degree program will provide you with the essential skills, knowledge, and confidence needed to launch your dream career in the cybersecurity field. Start your journey by scanning the QR code below or calling 833-EASTOHIO to connect with a member of our admissions team!



**STAY CONNECTED BY FOLLOWING US:**

