Career Readiness & Pathways

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Learn to Earn Dayton, Montgomery County ESC
The Career Connections Imperative

- Ensuring student success and career-readiness
- Helping existing and new businesses thrive
- Keeping talent in our region & Ohio
- Making Ohio a great place to live and work
Creating Awareness

- Power Lunches & Career Fairs
- Training educators to understand the local economy
- Engaging employers as a part of the system
Montgomery County ESC Business Advisory Council Participants

- K-12 Education
- Industry & Community
Vision

All MCESC BAC member district students are career-focused and have the preparation they need to succeed on the job and in life.

Mission

We will promote substantive and effective collaboration between educators and industry to prepare students to compete in a global economy.
Objectives
Building a Foundation
Adaptable and age-appropriate Career Resources supporting

• Awareness (K-5)
• Exploration (6-8)
• Planning (9-12)
K-5 Career Awareness
CAREER ADVENTURES

discover your future!

6-8 Career Exploration
9-12 Career Planning

Life Skills Courses

- Employability Skills
- Financial Literacy
- Digital Literacy
9-12 Career Planning

Life Skills Courses
- Employability Skills
- Financial Literacy
- Digital Literacy

Career Readiness
- Communication
- Teamwork
- Networking
- Professionalism
- Decision Making
- Work Ethic
- Self-Confidence
- Time Management
- Goal-Setting
- Perseverance
- Enthusiasm & Attitude
- Problem Solving & Critical Thinking
- Accepting & Learning from Criticism
- Flexibility & Adaptability
- Working Under Pressure
Industry Courses

- Aerospace & Aviation
- Healthcare
- Information Technology
- Manufacturing
- Construction Trades (coming soon!)
ENGAGE. DISCOVER. ACHIEVE.

Today's Students... Tomorrow's Workforce

Click To Login
Courses

Advanced Manufacturing
Manufacturing is the process of converting raw materials into physical goods. Modern manufacturing speeds up the process and brings down costs.

Healthcare and Bioscience
Future career that involves cutting-edge research, advanced technologies, helping people, and contributing to better health and wellness in our world.

Aerospace Aviation
This module will introduce you to the fields of aerospace and aviation, the evolution of the aerospace and aviation industries over the years, and the vast array of opportunities.

Information Technology
Information technology, commonly referred to as IT, is the knowledge-based industry that makes it possible for data to be analyzed, transmitted, retrieved, and stored by computer systems.
THE INFORMATION TECHNOLOGY INDUSTRY

ROLE OF IT IN OTHER SECTORS

IT IN OHIO
Information Technology

IT CAREER FIELDS & PATHWAYS

IN-DEMAND CAREERS IN IT

PLANNING FOR YOUR CAREER
Application Support Specialist
Computer Support Specialist
Help Desk Technician
Product Support Engineer
Data Scientist
Information Architect
Data Warehouse Appliance Specialist
Desktop Publisher
Cloud Infrastructure Architect

Cloud Support Engineer

Application Developer

Database Administrator

Database Designer

Software Engineer, Mobile Applications

Manager Business Applications

Information Technology (IT) Manager
Information Technology (IT) Specialist

Next - 5.4: Application Support Specialist
Overview

Cyber security specialists are the law enforcement officers of the IT industry. They are in charge of protecting sensitive data that organizations store on computer and network systems. They monitor network activity to ensure safety of information shared. Cyber security specialists also train users on the best practices to secure the safety of personal information.

Responsibilities

Cyber security specialists perform the following duties:

- plan, coordinates, and implements access for certain users to specific information
- monitor network activity to identify security breaches and areas where sensitive data is compromised
- use analysis, forensics, and reverse engineering to protect data vulnerabilities
- implement countermeasures to combat cyber threats like malware, phish, viruses, and DDoS attacks
- investigate trends and project future challenges to information safety
- demonstrate familiarity with computer information systems (CIS) and network software and apply both of these disciplines with proficiency
- recommend computer hardware and software solutions to mitigate the risks of transferring electronic information
- train colleagues on how to avoid cyber risks
Cyber security careers carry with them an exaggerated and unwavering demand for trustworthiness and professionalism. Most employers require a Bachelor's degree in information security or a closely associated field of study. Employees will likely need to earn multiple certifications to establish tiered levels of security clearance and gain access to sensitive information. Having IT work or internship experience in some type of law enforcement organization.

Career Pathways

Cyber security specialists are considered to be in an advanced IT career field. For some, this is an ultimate career field that might offer better benefits with lateral moves across different industries. Vertical growth opportunities in this field include becoming a security analyst or architect or a director of information technology.

Skills Needed

Cyber security specialists must demonstrate a high level of intrapersonal skills like trustworthiness and a dedication to the rules. They must be able to grasp the ins-and-outs of an organization's network operations in order to properly identify cyber attacks when they occur and anticipate future risks. They must be very familiar with computer information systems (CIS) and network software and apply both of these disciplines with proficiency. Critical thinking and problem-solving skills are paramount to this profession.
Growth Outlook

As cyber threats evolve in sophistication and frequency, cyber security specialist careers are in high demand. A large gap exists in the industry between the need and availability of a skilled and reliable workforce. Consequently, the projected employment of cyber security specialists is expected to grow nearly 18 percent from 2014 to 2024.

Work Environment

Cyber security specialists can be found in IT organizations, information security consulting companies, enterprise businesses, and financial firms. They are almost always in well paid, full-time, salaried positions.


Get Involved!

For more information contact Kelly Geers:

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Thank You