

# Industry Credentials, Concentration Sequences, and Career Clusters

## Cybersecurity in Food and Agriculture, Advanced (8075)

### Industry Credentials:

*These apply only to 36-week courses*

- College and Work Readiness Assessment (CWRA+)
- IC3 Digital Literacy Certification Examination
- IT Fundamentals+ (IFT+) Certification Examination
- National Career Readiness Certificate Assessment
- Security Pro Certification Examination
- Workplace Readiness Skills for the Commonwealth Examination

### Concentration Sequences:

*A combination of this course and those below, equivalent to two 36-week courses, is a **concentration sequence**. A **program completer** is a student who has met the requirements for a CTE concentration sequence and all other requirements for high school graduation or an approved alternative education program. Students wishing to complete a specialization may take additional courses based on their career pathways.*

- Cybersecurity Fundamentals
- Cybersecurity in Food and Agriculture

### Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
  - Agribusiness Systems
    - Agricultural Commodity Broker
    - Agricultural Economist
    - Agricultural Loan Officer
  - Environmental Service Systems
    - Environmental Compliance Inspector
    - Environmental Sampling and Analysis Technician
  - Power, Structural, and Technical Systems

- Agricultural Engineer
- Business Management and Administration
  - Administrative Support
    - Training and Development Manager
    - Computer Operator
    - Data Entry Specialist
  - Business Information Management
    - Account Executive
    - Applications Integrator
    - Computer User Support Specialist
    - Database Analyst
    - Software Test Engineer
    - Systems Analyst
  - General Management
    - Entrepreneur
- Education and Training
  - Teaching and Training
    - Cyber Instructional Curriculum Developer
    - Cyber Instructor
    - Secondary School Teacher
    - Training Consultant/Training Specialist
- Government and Public Administration
  - National Security
    - Cyber Defense Analyst
    - Military Intelligence Specialist
  - Regulation
    - Compliance Officer
    - Cyber Crime Investigator
    - Environmental Compliance Inspector
- Health Science
  - Health Informatics
    - Computer Programmer
- Information Technology
  - Information Support and Services
    - Account Executive
    - Applications Integrator
    - Communications Equipment Operator
    - Computer Numerical Control Programmer (CNC Programmer)

- Computer User Support Specialist
- Computer Systems Engineer, Architect
- Database Administrator
- Database Analyst
- Executive Assistant
- Geographic Information Systems (GIS) Technician
- Information Systems Analyst
- Information Systems Security Developer
- Information Systems Security Manager
- Internet Entrepreneur
- Network Systems and Data Communication Analyst
- Software Test Engineer
- Systems Analyst
- Network Systems
  - Computer Operator
  - Computer Security Specialist
  - Computer Software Engineer
  - Computer User Support Specialist
  - Computer Systems Engineer, Architect
  - Computer and Information Systems Administrator
  - Database Analyst
  - Information Security Analyst
  - Network Architect
  - Network Systems and Data Communication Analyst
  - Network and Computer Systems Administrator
  - Software Test Engineer
  - Systems Analyst
  - Telecommunications Equipment Installer, Repairer
  - Telecommunications Specialist
- Programming and Software Development
  - Applications Integrator
  - Computer Software Engineer
  - Network Systems and Data Communication Analyst
  - Programmer
  - Project Manager
  - Software Applications Engineer
  - Software Test Engineer
  - Systems Analyst

- Web Developer
- Web and Digital Communications
  - Applications Integrator
  - Computer User Support Specialist
  - Computer Systems Engineer, Architect
  - Software Test Engineer
  - Systems Analyst
  - Web Developer
  - Webmaster
- Law, Public Safety, Corrections and Security
  - Legal Services
    - Cyber Legal Advisor
- Manufacturing
  - Manufacturing Production Process Development
    - Programmer
- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Computer Hardware Engineer
    - Computer Programmer
    - Computer Software Engineer