Industry Credentials, Concentration Sequences, and Career Clusters

Cybersecurity in Manufacturing (8499)

Industry Credentials:

These apply only to 36-week courses

- Certified Production Technician (CPT) 4.0 Assessment
- College and Work Readiness Assessment (CWRA+)
- Manufacturing Specialist Certification Examination
- Manufacturing Technician Level 1 (MT1) Certification Examination
- Manufacturing Technology Assessment
- National Career Readiness Certificate Assessment
- Pre-Manufacturing Technician 1 (Pre-MT1) 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 Manufacturing, Advanced

Career Clusters, Career Pathways, and Occupations:

- Information Technology
  - Information Support and Services
    - Computer Numerical Control Programmer (CNC Programmer)
    - Systems Analyst
  - Network Systems
    - Computer Security Specialist
    - Computer Software Engineer
  - Programming and Software Development
    - Computer Software Engineer

- Programmer
- Systems Analyst
- Manufacturing
  - Manufacturing Production Process Development
    - Industrial Engineer
    - Industrial Engineering Technician
    - Manufacturing Systems Engineer
    - Network Designer
    - Programmer
  - Production
    - Automated Manufacturing Technician
  - Quality Assurance
    - Quality Control Technician
- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Computer Hardware Engineer
    - Computer Programmer
    - Computer Software Engineer
    - Engineering Technician
    - Industrial Engineer
    - Industrial Engineering Technician
    - Manufacturing Systems Engineer
    - Network Systems and Data Communication Analyst
    - Network and Computer Systems Administrator
    - Systems Analyst