

Industry Credentials, Concentration Sequences, and Career Clusters

Cybersecurity in Manufacturing, Advanced (8496)

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 in Manufacturing

Career Clusters, Career Pathways, and Occupations:

- Information Technology
 - Information Support and Services
 - Computer Numerical Control Programmer (CNC Programmer)
 - Information Systems Security Developer
 - Network Systems and Data Communication 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
 - SPC (Statistical Process Control) Coordinator
 - 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