

# Industry Credentials, Concentration Sequences, and Career Clusters

## Mechatronics I (8554)

### Industry Credentials:

*These apply only to 36-week courses*

- College and Work Readiness Assessment (CWRA+)
- Festo NC3 Introduction to Mechatronics STEM Lab Certification
- Festo NC3 Level 1: Fundamentals Certifications
- Manufacturing Specialist Certification Examination
- Manufacturing Technician Level 1 Certification Examination
- Manufacturing Technology Assessment
- Mechatronics Level 1 Assessment
- Mechatronics Systems Certification Examinations
- National Career Readiness Certificate Assessment
- Pre-Manufacturing Technician 1 (Pre-MT1) Examination
- Robotics Certification Examination
- Smart Automation Associate Examinations: Certified Industry 4.0 Associate–Advanced Operations
- Smart Automation Associate Examinations: Certified Industry 4.0 Associate–Basic Operations
- Smart Automation Associate Examinations: Certified Industry 4.0 Associate–IIoT, Networking & Data Analytics
- Smart Automation Associate Examinations: Certified Industry 4.0 Associate–Robot System Operations
- 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.*

- Mechatronics II

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

- Manufacturing
  - Manufacturing Production Process Development
    - Electro-Mechanical Technician
    - Industrial Engineer
    - Industrial Engineering Technician
    - Manufacturing Systems Engineer
  - Production
    - Automated Manufacturing Technician
- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Electrical Engineering Technician
    - Electro-Mechanical Technician
    - Mechanical Engineer
    - Mechanical Engineering Technician