

# Industry Credentials, Concentration Sequences, and Career Clusters

## Introduction to Power, Structural and Technical Systems (8016)

### Industry Credentials:

*These apply only to 36-week courses*

- Agriculture Mechanics Assessment
- Agriculture Systems Technology I Examination
- College and Work Readiness Assessment (CWRA+)
- Customer Service Specialist (CSS) Examination
- EETC Technician Certification Tests
- Master Service Technician Examinations
- National Career Readiness Certificate Assessment
- Principles of Small Engine Technology Certification Examination
- Small Engine Technology Assessment
- 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.*

- Agricultural Business Fundamentals I
- Agricultural Fabrication and Emerging Technologies
- Agricultural Production Technology
- Agricultural Structural Systems
- Applied Agricultural Concepts (18 weeks)
- Applied Agricultural Concepts (36 weeks)
- Energy and Power
- Foundations of Agriculture, Food, and Natural Resources
- Livestock Production Management

- Operating the Farm Business
- Small Engine Repair
- Small Engine Repair (18 weeks)
- Turfgrass Management
- Turfgrass Management, Advanced

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

- Agriculture, Food and Natural Resources
  - Plant Systems
    - Machine Setter, Operator
  - Power, Structural, and Technical Systems
    - Agricultural Engineer
    - Agricultural Equipment Operator
    - Agricultural Equipment Parts Manager
    - Agricultural Equipment Parts Salesperson
    - Machinist
    - Parts Manager
    - Welder
- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Agricultural Engineer
    - Civil Engineer
    - Civil Engineering Technician
    - Electrical Engineer
    - Electrical Engineering Technician
    - Engineer
    - Engineering Technician
    - Industrial Engineer
    - Industrial Engineering Technician
    - Manufacturing Systems Engineer
    - Mechanical Engineer
    - Mechanical Engineering Technician
    - Power Systems Engineer