

Industry Credentials, Concentration Sequences, and Career Clusters

Agricultural Structural Systems (8017)

Industry Credentials:

These apply only to 36-week courses.

- Agriculture Mechanics Assessment
- Building Construction Occupations Assessment
- Carpentry Level One Entry=Level Assessment
- Carpentry Assessment
- Carpentry Examination
- College and Work Readiness Assessment (CWRA+)
- Construction Assessment
- Construction Masonry – Block Assessment
- Construction Masonry – Brick Assessment
- Construction Technologist Entry Level Assessment
- Customer Service Specialist (CSS) Examination
- Electrical Power and Distribution Assessment
- Electrical Construction Technology Assessment
- National Career Readiness Certificate Assessment
- Plumbing Assessment
- Plumbing 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.*

- Agricultural Business Fundamentals I (8022/36 weeks)
- Agricultural Fabrication and Emerging Technologies (8019/36 weeks)
- Agricultural Power Systems (8018/36 weeks)
- Agricultural Power Systems, Advanced (8020/36 weeks)
- Applied Agricultural Concepts (8073/36 weeks)
- Applied Agricultural Concepts (8072/18 weeks)
- Energy and Power (8495/18 weeks)

- Introduction to Animal Systems (8008/36 weeks)
- Introduction to Power, Structural, and Technical Systems (8016/36 weeks)
- Livestock Production Management (8012/36 weeks)
- Operating the Farm Business (8014/36 weeks)

Career Clusters, Career Pathways, and Occupations:

- Agriculture, Food and Natural Resources
 - Agribusiness Systems
 - Agricultural Products Sales Representative
 - Farm Products Purchasing Agent and Buyer
 - Farm, Ranch Manager
 - Farmer/Rancher
 - Feed, Farm Supply Store Sales Manager
 - Sales Manager
 - Animal Systems
 - Agricultural Products Sales Representative
 - Animal Breeder, Husbandry
 - Aquacultural Manager
 - Poultry Manager
 - Environmental Service Systems
 - Agricultural Products Sales Representative
 - Environmental Compliance Inspector
 - Environmental Sampling and Analysis Technician
 - Hazardous Materials Handler
 - Recycling Coordinator
 - Secondary School Teacher
 - Toxicologist
 - Turf Farmer
 - Water Conservationist
 - Natural Resources Systems
 - Fisheries Technician
 - Forest Manager, Forester
 - Forest Technician
 - Geological Technician
 - Logging Equipment Operator
 - Park Manager
 - Park Technician
 - Range Technician
 - Plant Systems
 - Agricultural Products Sales Representative
 - Crop Grower
 - Custom Harvester
 - Farm, Ranch Manager
 - Farmer/Rancher
 - Golf Course Superintendent

- Machine Setter, Operator
 - Nursery and Greenhouse Manager
 - Ornamental Horticulturist
 - Secondary School Teacher
 - Tree Surgeon
 - Turf Farmer
- Power, Structural, and Technical Systems
 - Agricultural Engineer
 - Agricultural Equipment Operator
 - Agricultural Equipment Parts Manager
 - Agricultural Equipment Parts Salesperson
 - Machinist
 - Parts Manager
 - Welder
- Architecture and Construction
 - Construction
 - Cabinetmaker
 - Carpenter
 - Construction and Building Inspector
 - Construction Manager
 - Electrician
 - General Contractor
 - Mason
 - Plumber, Pipefitter
 - Project Manager
 - Roofer
 - Design/Pre-Construction
 - Architect
 - Architectural Drafter
 - Building Code Inspector
 - Civil Engineer
 - Cost Estimator
 - Electrical Engineering Technician
 - Landscape Architect
 - Mechanical Drafter
 - Mechanical Engineer
 - Survey Technician
 - Surveyor