

# Industry Credentials, Concentration Sequences, and Career Clusters

## Technology Assessment (8407)

### Industry Credentials:

*These apply only to 36-week courses*

- College and Work Readiness Assessment (CWRA+)
- National Career Readiness Certificate 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.*

- Technology Foundations (18 Weeks)
- Technology Foundations (36 Weeks)
- Technology Transfer (18 Weeks)
- Technology Transfer (36 Weeks)

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

- Agriculture, Food and Natural Resources
  - Manufacturing Production Process Development
    - Industrial Engineering Technician
  - Natural Resources Systems
    - Ecologist
    - Forest Manager, Forester
    - Forest Technician
    - Wildlife Manager
  - Plant Systems
    - Crop Grower
    - Soil and Plant Scientist
    - Plant Breeder/Geneticist

- Architecture and Construction
  - Design/Pre-Construction
    - Architect
    - Civil Engineer
    - Cost Estimator
    - Landscape Architect
- Arts, A/V Technology and Communications
  - Audio and Video Technology and Film
    - Editor
    - Producer
    - Sound Engineering Technician
  - Journalism and Broadcasting
    - Art Director
    - Editor
    - Program Director
    - Radio, TV Announcer
    - Radio, TV Reporter
  - Printing Technology
    - Production, Planning, Expediting Clerk
  - Telecommunications
    - Computer Programmer
    - Network Systems and Data Communication Analyst
- Business Management and Administration
  - Business Information Management
    - Chief Executive Officer
    - Cost Analyst
    - Financial Analyst
    - Market Research Analyst
    - Operations Research Analyst
    - Systems Analyst
  - General Management
    - Chief Executive Officer
    - Entrepreneur
- Finance
  - Business Finance
    - Cost Analyst
    - Economist
- Government and Public Administration

- Governance
  - Legislator
- Planning
  - Economic Development Coordinator
  - Urban and Regional Planner
- Regulation
  - Compliance Officer
  - Environmental Compliance Inspector
- Health Science
  - Biotechnology Research and Development
    - Biochemist
    - Research Assistant
- Manufacturing
  - Manufacturing Production Process Development
    - Industrial Engineer
- Science, Technology, Engineering and Mathematics
  - Engineering and Technology
    - Agricultural Engineer
    - Biomedical Engineer
    - Civil Engineer
    - Civil Engineering Technician
    - Environmental Engineer
    - Industrial Engineer
    - Industrial Engineering Technician
    - Materials Engineer
    - Nuclear Engineer
    - Power Systems Engineer
  - Environmental Service Systems
    - Environmental Sampling and Analysis Technician
    - Hazardous Materials Handler
    - Recycling Coordinator
    - Water Conservationist
  - Science and Mathematics
    - Atmospheric Scientist
    - Ecologist
    - Economist
    - Environmental Scientist
    - Geoscientist

- Hydrologist
  - Oceanographer
  - Research Chemist
  - Technical Writer
- Securities and Investments
  - Real Estate Developer
- Transportation, Distribution and Logistics
  - Facility and Mobile Equipment Maintenance
    - Aircraft Structure, Surfaces, Rigging, and Systems Assembler
  - Health, Safety and Environmental Management
    - Health, Safety, and Environment Manager
  - Health, Safety, and Environmental Assurance
    - Safety Engineer
  - Logistics Planning and Management Services
    - Logistics Analyst
    - Logistics Engineer
    - Logistics Manager
  - Transportation Operations
    - Air Traffic Controller
    - Flight Engineer
    - Pilot
    - Ship Engineer
    - Transportation Manager
  - Transportation Systems/Infrastructure Planning, Management and Regulation
    - Aerospace Engineer
    - Civil Engineer
    - Civil Engineering Technician
    - Pilot
    - Traffic Engineer
    - Transportation Manager
    - Urban, Regional Planner
  - Warehousing and Distribution Center Operations
    - Traffic Engineer
    - Transportation Manager