

Industry Credentials, Concentration Sequences, and Career Clusters

Energy and Power (8448, 8495)

Industry Credentials:

These apply only to 36-week courses.

- College and Work Readiness Assessment (CWRA+)
- Energy Industry Fundamentals Certificate Assessment
- 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.*

- Construction Technology (8431/36 weeks)
- Renewable Energy (8408/36 weeks)
- Sustainability and Renewable Technologies (8414/36 weeks)
- Energy Demand: Sustainability and Efficiency (ED8411/36 weeks)
- Energy Transmission and Distribution, Advanced (TD8411/36 weeks)
- Power Generation Design and Function (PG8411/36 weeks)
- Engineered Energy Systems (EES8411/36 weeks)

Career Clusters, Career Pathways, and Occupations:

- **Architecture and Construction**
 - **Operations and Maintenance**
 - Electrical Power Line Installers and Repairers
- **Science, Technology, Engineering and Mathematics**
 - **Construction**
 - Civil Engineer
 - Civil Engineering Technician
 - Electrical Drafter
 - Electrical Engineer

- Electrical Engineering Technician
 - Electro-Mechanical Technician
 - Electronics Engineering Technician
 - Industrial Engineer
 - Industrial Engineering Technician
 - Manufacturing Systems Engineer
 - Mechanical Engineer
 - Mechanical Engineering Technician
 - Nuclear Engineer
 - Petroleum Engineer
 - Power Systems Engineer
 - Systems Analyst
- **Transportation, Distribution and Logistics**
 - **Health, Safety and Environmental Management**
 - Health, Safety, and Environment Manager
 - **Logistics Planning and Management Services**
 - Logistics Analyst
 - **Sales and Service**
 - Customer Service Representative (CSR)
 - **Transportation Systems/Infrastructure Planning, Management and Regulation**
 - Civil Engineer
 - Civil Engineering Technician
 - Urban, Regional Planner