

# 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