

Industry Credentials, Concentration Sequences, and Career Clusters

Civil Engineering and Architecture (PLTW) (8430)

Industry Credentials:

These apply only to 36-week courses

- College and Work Readiness Assessment (CWRA+)
- Design and Pre-Construction Assessment
- National Career Readiness Certificate Assessment
- Pre-Engineering/Engineering Technology Assessment
- Project Lead the Way End-of-Course Assessments
- 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.*

- Introduction to Engineering Design (PLTW)

Career Clusters, Career Pathways, and Occupations:

- Architecture and Construction
 - Construction
 - Construction Manager
 - Construction and Building Inspector
 - Project Manager
 - Design/Pre-Construction
 - Architect
 - Building Code Inspector
 - Civil Engineer
 - Cost Estimator

- Maintenance and Operations
 - Construction Manager
 - General Contractor
 - Project Manager
- Government and Public Administration
 - Planning
 - Urban and Regional Planner
 - Regulation
 - Environmental Compliance Inspector
- Science, Technology, Engineering and Mathematics
 - Engineering and Technology
 - Architect
 - Civil Engineer
 - Engineering Manager
 - Environmental Engineer
 - Petroleum Engineer
 - Project Manager
 - Statistician
 - Systems Analyst
 - Transportation Manager
 - Science and Mathematics
 - Ecologist
 - Environmental Scientist
 - Geodetic Surveyor