

Industry Credentials, Concentration Sequences, and Career Clusters

Introduction to Engineering Design (PLTW) (8439)

Industry Credentials:

These apply only to 36-week courses

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

- Aerospace Engineering (PLTW)
- Civil Engineering and Architecture (PLTW)
- Computer Integrated Manufacturing (PLTW)
- Digital Electronics (PLTW)
- Engineering Design and Development (PLTW)
- Principles of Engineering (PLTW)
- Technical Drawing and Design
- Technology Foundations

Career Clusters, Career Pathways, and Occupations:

- Science, Technology, Engineering and Mathematics
 - Engineering and Technology
 - Aerospace Engineer
 - Civil Engineer

- Commercial and Industrial Designer
- Industrial Engineer
- Mechanical Drafter
- Mechanical Engineer
- Nuclear Engineer
- Petroleum Engineer