

IDEAS FOR INSPIRATION: TEAM-BASED CHALLENGES

Manufacturing, Engineering, Technology, and Trades

Plant Safety	Review the history and current practices for plant safety within an organization and suggest recommendations for improvement.
Review Plans/Maps	Inspect plans and/or maps of structures to determine areas in need of troubleshooting and make recommendations for repairs.
Basic Design	Given a design need, create basic detail and assembly drawings for products and equipment that address concepts in layout, print reading, measurement, and quality assurance.
Cost Estimation	Given an authentic need from a customer, research vendors and apply cost estimation principles to create a project timeline and estimate labor and material costs.
Build and Test Prototypes	Given a need to address, develop and test prototypes as potential solutions — document results as able to build and test prototype for quality control to make recommendations for improvement to prototype.



This resource was created by [Education Systems Center at Northern Illinois University](#).

The Illinois Work-Based Learning Innovation Network (I-WIN) is designed to help employers, educators, and students leverage innovative models for scaling high-quality work-based learning opportunities in school districts and community colleges across the State. This network explores ways to create equitable opportunities for students through both in-person and virtual learning.

Access a resource bank of Team-Based Challenge templates and learn more about joining I-WIN at edsystemsniu.org/i-win-resources/.