



Competitive Event Prep Chapter 3

Reverse Engineering

Identify

National competitive events presented by organizations like FIRST, SkillsUSA, and TSA require an oral presentation as a critical component of the evaluation. The ability to present information in front of others with confidence and poise is a valuable skill that is necessary in college and most careers.

Set Up

Identify an everyday product that can be reverse engineered. Locate the tools, resources, and research necessary to successfully prepare for its disassembly.

Execute

Reverse engineer your product. Carefully document the process, and prepare an oral presentation that will present your findings of the following through text, images, and a brief disassembly video:

- sub-systems
- fasteners
- components
- mechanisms

Evaluate

Practice your presentation, using a presentation system compatible with what you will find at your presentation site (same operating system and version). Use timing features provided to ensure proper pacing.

Share

As a team, present your evaluation of the reverse engineering process to your peers. Challenge all members of the team to speak. Then encourage your peers to provide you with both positive and negative feedback. In fact, have your peers speak before your teacher!