

The Widget Cup[®]

Est. 2015

A Design/Build Competition

- WHO** Eight-person teams of career & technical education students from high schools in Clarke County, Frederick County and Winchester, Virginia
- WHAT** Teams are given parameters for a widget they must design, build, and present to a customer — all within a six hour window!
- WHERE** Sherando High School
- WHEN** April 5, 2019



Competition Timeline



DESIGN 12:15 p.m. - 1:15 p.m.
Teams have one hour to draft drawings of their prototype based on design specifications provided by the client. Local business professionals consult with teams and sign-off on their final designs.



BUILD 1:20 p.m. - 4:20 p.m.
Teams have three hours to bring their concepts to life, utilizing a fully-equipped shop and materials donated by local businesses. Fans and supporters can watch via live-feed in the auditorium.



PRESENT 5:05 p.m. - 5:40 p.m.
Audio-visual team members capture their team's work throughout the day and develop a presentation or pitch, to the client, showcasing how their prototype best addresses the client's needs.



JUDGE 5:40 p.m. - 6 p.m.
Business owners, engineers, and other local professionals serve as judges. A specific rubric is used to grade teams throughout the day on 15 parameters, including safety, teamwork, and quality of build.



THE WINNER! 6 p.m.
The winning team houses The Widget Cup trophy at their school until next year's competition. Fabritek/Winchester Tool, a local company, designed and manufactured the trophy.



DELIVERY Later Date
Post-Widget Cup, prototypes are delivered to the respective schools for final touch-ups. Then, students, teachers, and volunteers gather at the client's business for presentation of the final products.



Get Involved!

“I've been impressed in watching the students work. There is a lot of problem-solving and teamwork, all things you like to see in our future workforce.”

Josh Phelps
President | Winchester Metals

74% of Widget Cup team members felt prepared for competition because of skills obtained through CTE classes.

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