



## Collision Repair Technology

### **Plastic Repair Demonstration**

Complete a tear repair on a plastic vehicle part using a plastic nitrogen welder by demonstrating the proper safety procedures during the preparation and welding process, how to properly clean a plastic part before making any repairs, backside surface preparation of a plastic part prior to repair (roughing the surface with an abrasive), aligning the cosmetic side of the repair, selecting the proper welding rod, ribbon selection, and nitrogen welding technique on the backside of the plastic part, reinforce the plastic part to ensure the integrity of the repair, V-groove a tear on a plastic part, and nitrogen plastic welding technique to the cosmetic side of the plastic part. See link below for demonstration.

[https://www.youtube.com/watch?v=cMT\\_DHYbsYE](https://www.youtube.com/watch?v=cMT_DHYbsYE)

### **Structural Repair**

As of the 2017 competition the Structural Analysis Segment Full Frame Analysis section will be changing from the Universal Mechanical Measuring system to the Car-O-Tronic measuring system (advanced mechanical) by Car-O-Liner. Contestants will need to know the basics of reading structural damage with this system. The other two sections in Structural Analysis (Simulators with Gauges and Chief Computerized Measuring System) will remain the same.