

# **SkillsUSA 2010 Contest Projects**

## **Collision Repair**

Click the “Print this Section” button above to automatically print the specifications for this contest. Make sure your printer is turned on before pressing the button.

## **Collision Repair Technology**

### **Scope of the contest**

**Contestants will demonstrate their ability to perform jobs and skills based on the task list outlined by the National Institute for Automotive Service Excellence (ASE) Collision Repair/Refinishing Study Guide, and the National Automotive Technicians Education Foundation (NATEF) Collision Repair and Refinishing Standards. The competition includes a series of workstations to assess skills in the following areas: metal straightening, welding, plastic repair, and structural analysis. There will be a written test on estimating, structural analysis, and an ASE exam. The competitors will also participate in an interview. The overall appearance of the finished product, speed and proper safety practices will be judged.**

## **Collision Repair Technology**

This contest includes a series of workstations to assess the skills in the following areas.

### **Metal Repair**

Proper use of tools, metal straightening and shrinking techniques, use of plastic filler material, and evaluation of overall appearance

### **Welding**

GMA (MIG) welding light gauge steel in overhead and vertical positions

### **Structural Analysis and Frame**

Suspension and steering identification and function, use specification sheet to install gauge measuring system. Diagram and analyze structural misalignment using mechanical and computerized measuring system.

### **Plastic Repair**

Surface preparation, featheredging, block sanding, plastic identification, and general knowledge test.

### **Written Test**

**The contestants will have 3 written tests**

ASE test which consists of 50 questions that will cover the three skill areas of the areas that are identified in the NATEF Collision Repair/Refinishing Program Standards and the ASE Official Study Guide – Collision Repair/Refinish which are: Non-Structural Analysis and Damage Repair, Structural Analysis and Damage Repair, Mechanical and Electrical Components. Estimating test is a written test using an industry estimating manual, manually entering data on an estimate sheet, and making calculations. Structural test will include identifying suspension and steering components and functions.

### **Job Application and Interview**

Fill out job application; participate in a scheduled job interview, and résumé assessment.



## CONTEST SCORING CRITERIA

Collision Repair Technology  
Contest

Darrell Andrews  
Chair

Skill Description	Maximum Points
1. Metal Repair	175
2. Welding	175
3. Structural Analysis	175
4. Plastic Repair	175
5. Estimating	100
6. Interview	100
7. ASE Exam	100
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Résumé submitted?    Yes <input type="radio"/> No <input type="radio"/> (5% penalty)	

<b>Tie Breakers</b>
1. SkillsUSA Professional Development Program Test 2. Estimating 3. Structural Analysis

**Collision Repair Technology**

This year, Delmar, a part of Cengage Learning is making their online ASE Test Preparation tools available to all instructors and competitors immediately. This means that some competitors may be able to use the tool in advance of their district and state competitions.

Instructors should only share the materials with competitors.

Access will be terminated when the National Competition begins.  
Please use the contact information below to get the necessary link  
[jonathan.sweeney@cengage.com](mailto:jonathan.sweeney@cengage.com) | [www.delmarlearning.com](http://www.delmarlearning.com)

## ASE Damage Analysis and Estimating Certification (B6)



**Objective:** To identify and recognize those estimators who possess knowledge of the skills necessary to properly analyze and estimate automotive collision damage.

**Scope of Program:** The ASE Damage Analysis and Estimating (B6) Test complements the other tests in the Collision Repair Test series that identify and recognize collision repair technicians and refinishers. This test is specially constructed and intended for those professionals who may not actually repair vehicles, but have the special knowledge needed to assess collision damage, estimate repair costs, and work with vehicle owners.

**Test Development:** The questions that appear on the this test are written and approved by a cross-section of industry experts that includes collision repair shop estimators, collision repair technicians, independent appraisers, and representatives of automobile manufacturers, information providers, industry trainers and insurance companies. This procedure ensures that the tests are fair to all estimators without bias towards any specific manufacturer, insurer, or estimating system.

## ASE Collision Repair and Refinishing



**Objective:** To identify and recognize those collision repair technicians and refinishers who possess knowledge of the skills necessary to properly analyze and repair automotive collision damage and correct paint finish damage.

**Scope of Program:** The ASE Collision Repair and Refinish Test Series includes one test for paint refinishers and three other tests for repair technicians: Painting and Refinishing (B2), Non-Structural Analysis and Damage Repair (B3), Structural Analysis and Damage Repair (B4), and Mechanical and Electrical Components (B5).

**Test Development:** The collision repair and refinishing tests are written and approved by a cross-section of industry experts that includes collision repair technicians, refinishers, and representatives of vehicle manufacturers, information providers, paint manufacturers, parts and equipment manufacturers, industry trainers, and insurance companies. This procedure ensures that the tests are fair to all without bias towards any specific manufacturer, insurer, or refinishing system.

For additional information and go to the AYES website at [www.ayes.org/elearning](http://www.ayes.org/elearning)