

Specific Competencies and Skills Tested in this Assessment:

Structural

- Select, setup, and adjust welders
- Describe various types and uses of welding processes
- Use adhesive bonding procedures
- Analyze primary and secondary damage
- Replace and/or repair structural components



Non-Structural

- Identify automotive plastics and proper repair procedures
- Remove and replace automotive glass and trim
- Remove, install, replace, and align non-structural panels
- Remove, install, and replace components

Painting and Refinishing

- Identify and demonstrate surface preparation techniques
- Identify and demonstrate paint and materials preparation techniques
- Identify and demonstrate paint and materials application techniques
- Identify painting and refinishing safety/environmental requirements

Mechanical and Electrical Systems

- Identify, remove, and install/replace components
- Identify basic suspension geometry
- Describe the terms voltage, current, and resistance (fundamental electrical theory)
- Perform basic and advanced electrical diagnostic operations

Safety and Environmental Issues

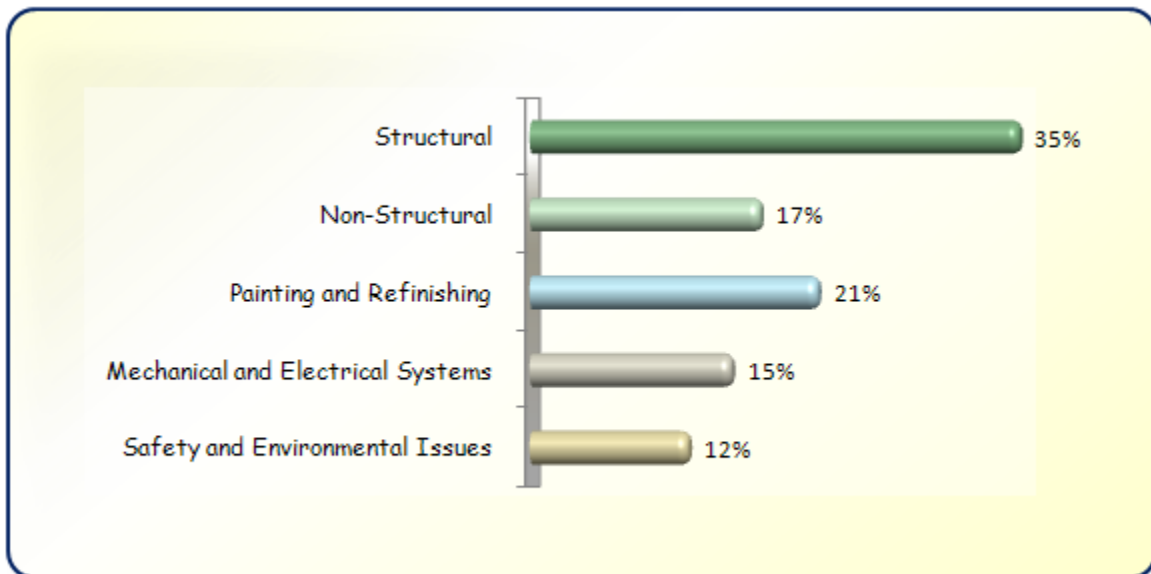
- Demonstrate knowledge of safety/environmental requirements in the collision repair industry
- Identify proper safety techniques for the use of shop equipment

Written Assessment:

Administration Time: 3 hours

Number of Questions: 150

Areas Covered:



Sample Questions:

Bird-nesting occurs on a MIG welder

- A. between the drive rollers and liner
- B. at the contact tip
- C. on the work being welded
- D. at the gas bottle outlet

Mold release agents can cause

- A. improper panel texture
- B. sags in paint surface
- C. poor paint adhesion
- D. color mismatch

A dual-action sander is used to

- A. smooth welds
- B. feather or remove paint
- C. form ridges
- D. smooth out plastic body filler

An SAE bolt head has three slashes or raised marks. These marks indicate a _____ bolt.

- A. Grade 3
- B. Grade 5
- C. Grade 7
- D. Grade 9

Use a shade lens of _____ or higher for MIG welding.

- A. 1
- B. 4
- C. 7
- D. 9



Performance Assessment:

Administration Time: 4 hours and 30 minutes

Number of Jobs: 7

Areas Covered:

5% **Component Identification**

Identification of components, and timeliness of job.

11% **Door Striker Repair**

Safety, adjustment of striker and door depth, and timeliness of job.

27% **Welding**

Safety, welder adjustment, lap weld in vertical position, butt weld vertical with backing, plug weld - vertical, welder shut-down, and timeliness of job.

19% **Sheet Metal Repair**

Safety, clean panel, straighten damaged area, prepare panel for filler, mix and apply body filler, sand and shape filler, and timeliness of job.

20% **Refinishing**

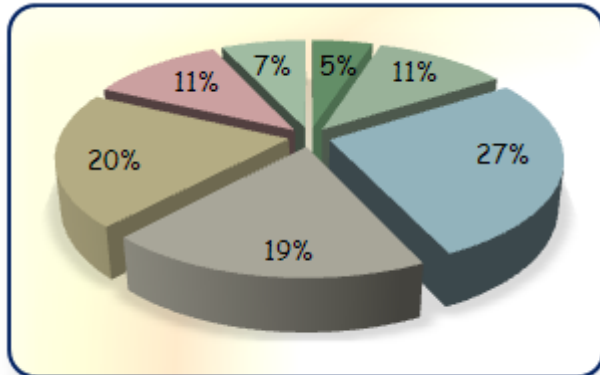
Safety, panel cleaning, tack rag, base coat application, clearcoat application, and timeliness of job.

11% **Masking**

Safety, panel cleaning, masking and removal, clean up and prepare, and timeliness of job.

7% **Vehicle Measurement**

Safety, measure wheel base, x-measurement of engine compartment, and timeliness of job.



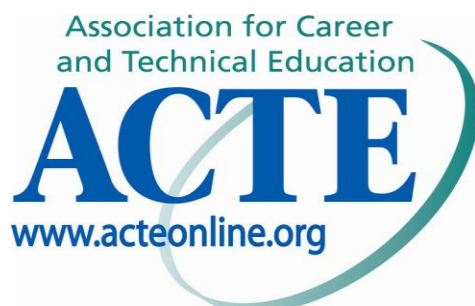
Sample Job: Refinishing

Maximum Time: 1 hour and 15 minutes

Participant Activity: The participant will clean, prep, and refinish the panel that is provided using a metallic base coat, a clearcoat system, observing safety and environmental concerns.



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career and technical education programs and choose to validate their educational attainment through rigorous technical assessments. In taking this assessment you demonstrate to your school, your parents and guardians, your future employers and yourself that you understand the concepts and knowledge needed to succeed in the workplace. Good Luck!