

## **Automotive Collision Technology (ACT)**

### **ACT 101 Introduction to Collision Repair**

7 Hours

Prerequisites: None

13 hours weekly (4-9)

A study that prepares students with the foundational knowledge and skills needed to be successful in the collision repair industry. The study uses ICAR's Introduction Series and covers personal safety, terminology, tools, and vehicle construction materials. In the lab portion, emphasis will be put on personal safety, and will include the preparation, repair, and refinishing of various basic assigned projects.

### **ACT 111 Welding for Collision Repair**

2 Hours

Prerequisites: ACT 101

4 hours weekly (1-3)

A study that prepares students with the knowledge and skills needed to perform the various welding operations specifically used in the collision repair industry. The study will cover mild steel through advanced high-strength steels, aluminum, MIG welding on thin gauge metal, plug welding, welding using the skip-stitch technique, MIG brazing, and squeeze-type-resistance-spot-welding.

### **ACT 121 Plastic and Composite Repair**

2 Hours

Prerequisites: ACT 101

4 hours weekly (1-3)

A study of the identification, preparation, and repair of flexible, semi-flexible, and rigid plastic materials. The study will include a lab portion where repairs using airless and hot-air welders,

and adhesive types of repair materials will be practiced.

### **ACT 151 Structural Damage Repair**

9 Hours

Prerequisites: None

19 hours weekly (4-15)

A study of the repair procedures used in structural damage repair, including replacement of panels, sectioning, and straightening methods. This course will emphasize using OEM recommended procedures. This course will include hands-on instruction, including set-up, measuring, pulling, and replacement of parts to return vehicles to pre-accident condition.

### **ACT 161 Damage Analysis**

1 Hour

Prerequisites: ACT 101

1 hour weekly (1-0)

This course will go into detail, the steps used to analyze the damage on a vehicle, post-accident. Computer based estimating will be used as the means to write a complete vehicle estimate, as well as, reviewing recommended procedures that must be considered prior to vehicle repair.

### **ACT 180 Detailing**

2 Hours

Prerequisites: None

4 hours weekly (1-3)

This course will cover the basics on interior and exterior protection, correction, and restoration, as well as, routine maintenance needed for today's automotive finishes. The lab activities will include evaluating the surfaces, washing techniques, clay bar use, correcting and sealing

the paint, headlight restoration, and cleaning and protecting other automotive surfaces.

### **ACT 181 Paint Protective Film**

2 Hours

Prerequisites: ACT 180

4 hours weekly (1-3)

This study will cover the uses and types of different automotive film. Including paint protective film, automotive wraps, and window tint. Lab activities will include surface preparation, installation, care, and removal of various types of automotive films.

### **ACT 201 Non-Structural Repair**

2 Hours

Prerequisites: ACT 101 and concurrent enrollment in ACT 221

2 hours weekly (2-0)

This course of study utilizes ICAR's curriculum that is designed to prepare students for the ICAR Non-Structural ProLevel 1 certification. This lecture-based class will cover trim, hardware, movable glass, corrosion protection, electrical systems, and foams.

### **ACT 211 Refinishing**

2 Hours

Prerequisites: ACT 101 and concurrent enrollment in ACT 221

2 hours weekly (2-0)

This course of study utilizes ICAR's curriculum that is designed to prepare students for the ICAR Refinish ProLevel 1 certification. This lecture-based class will cover hazardous material, personal, and refinish safety, solvent and waterborne application and systems, and finish repair and correction.

### **ACT 221 Advanced Collision Repair Lab I**

4 Hours

Prerequisites: ACT 101, 111, 121, 151, and concurrent enrollment in ACT 201 and 211

12 hours weekly (0-12)

This lab will be fully hands-on and will allow principles from all previous ACT classes and from current ACT 201 and 211 to be practiced on lab parts and vehicles, and on live repair projects.

### **ACT 251 Advanced Collision Repair**

4 Hours

Prerequisites: ACT 101, 111, 121, 151 and concurrent enrollment in ACT 261.

4 hours weekly (4-0)

This study will continue to utilize some of ICAR's more specific and advanced programs. This lecture-based class will cover topics including Aluminum panel structures, analysis, and repair, as well as, the newest and up-to-date trends and topics in the collision repair industry.

### **ACT 261 Advanced Collision Repair Lab II**

5 Hours

Prerequisites: ACT 101, 111, 121, 151 and concurrent enrollment in ACT 251

15 hours weekly (0-15)

This final auto collision lab class is fully hands-on allowing students to work on live collision repair projects, taking them from beginning to end and returning the vehicle to the customer. Students will be able to become fully prepared for entering the collision repair industry upon successful completion of this class.