

Auto Collision Units of Study

1. The Automotive Collision Shop
 - A. Opportunities in Automotive Collision Repair
 - B. Automobile Body Construction
 - C. Safety in the Shop
 - D. Fasteners
 - E. Hand Tools
 - F. Electric Body Tools
 - G. Pneumatic Tools
 - H. Hydraulic Body Tools
 - I. The Auto Collision Shop

2. Welding
 - A. Oxyacetylene Welding and Cutting
 - B. MIG Welding
 - C. Plasma Cutting

3. Plastic Body Fillers, Fiberglass, and Plastic Repair
 - A. Identifying Substrate
 - B. Introduction to Types of Fillers
 - C. Using Plastic Fillers
 - D. Fiberglass Repair
 - E. Plastic Repair

4. Correcting Sheet Metal Damage
 - A. Basic Operations in Collision Repair
 - B. Methods of Sheet-Metal Repair
 - C. Repairing Sheet Metal
 - D. Frame Identification
 - E. Analyzing Damage

5. Aligning Body Panels
 - A. Adjusting Body Panels
 - B. Fitting Fenders and Doors
 - C. Fitting Hoods and Trunk Lids
 - D. Installing Bumpers

6. Servicing Doors, Tailgates, and Lift gates
 - A. Door Trim, Moldings, and Weather-strip
 - B. Door Latches, Locks, and Window Regulators
 - C. Rear-Opening Doors

7. Seats, Interior, Seat Belts, and Air Bags
 - A. Automotive Seats

- B. Interior Trim
 - C. Inspecting Servicing Seatbelt Mechanism
 - D. Air Bags
8. Stationary Glass Service
- A. Stationary Glass Replacement
 - B. Windshield Replacement
 - C. Water Leak Checks
 - D. Wind Noise
9. Painting and Refinishing – NATEF Tasks
- A. Safety Precautions
 - B. Identify safety and personal health hazard according to OSHA guidelines and the “Right to Know Law”.
 - C. Inspect spray environments to ensure compliance with federal, state, and local regulations, and for safety and cleanliness hazard.
 - D. Select and use the NIOSH approved personal sanding respirator. Inspect condition and ensure fit and operation. Perform proper maintenance in accordance with OSHA Regulation 1910.134 and applicable state and local regulations.
 - E. Select and use the NIOSH approved (Fresh Air Make-up System) personal painting/refinishing respirator system. Perform proper maintenance in accordance with OSHA Regulation 1910.134 and applicable state and local regulation.
 - F. Select and use the proper personal safety equipment for surface preparation, spray gun and related equipment operation, paint mixing, matching and application, paint defects and detailing (gloves, suits, hoods, eye and ear protection, etc.)
 - G. Painting Supplies and Equipment
 - H. Spray Guns
 - I. Automotive Paints
 - J. Preparing the Surface for Painting
 - K. Typical Paint Jobs
 - L. Paint Problems
 - M. Undercoats, Primers, and Sealers
 - N. Single Stage, Base Coat, Clear Coat, Tri-Coat
 - O. Final Color Sanding, Buffing, Polishing, and Glazing
10. Estimating