

Collision Repair Competency Profile



MECHANICAL & ELECTRICAL COMPONENTS

- Identify electrical system components
- Service, diagnose and repair electrical accessories
- Remove and replace belts, shroud, radiator
- Identify steering systems and components
- Service a battery

PAINTING & REFINISHING

- Use safe painting practices, including the use of protective clothing and equipment
- Clean and service spray guns
- Mix and apply primer surfacer
- Mix and apply basecoat and blend
- Mix and apply clear and blend
- Clean and prep plastic panels
- Prep. Prime and refinish plastic panels

BASIC SHOP & SAFETY PRACTICES

- Use protective clothing and equipment
- Identify and follow general safety rules
- Demonstrate safe use and maintenance of collision repair power and hand tools
- Use chemicals safely
- Describe proper lifting and jacking techniques

NON-STRUCTURAL ANALYSIS & DAMAGE REPAIR

- Remove and install exterior trim
- Demonstrate customer detail and preparation
- Demonstrate knowledge in metal finishing and body fillers
- Perform outer body panel repair, replacement and adjustments
- Demonstrate knowledge in glass and hardware
- Replace metal panels using panel bonding adhesive
- Repair plastics with chemical fillers
- Perform flexible parts putty procedure

STRUCTURAL ANALYSIS & DAMAGE REPAIR

- Identify vehicle frame construction, conventional and unibody
- Set up and construct a mig stitch, plug weld
- Straighten and align structural damage
- Perform stress relief using shock
- Replace structural components and panels