

Palomar College ROP

Auto Body Repair II

Occupational Knowledge and Skills

- 1 SHOP PROCEDURES**
- A Complies with environmental, health and safety regulations or guidelines.
 - B Understands significance of MSDS.
 - C Accurately identifies, properly uses and maintains tools and equipment.
 - D Uses correct industry terminology in written and verbal communication.
 - E Demonstrates ability to calculate, measure and apply basic mathematical principles.
 - F Demonstrates understanding of estimating concepts and process.
- 2 PREPARATION**
- A Reviews damage report and analyzes damage to determine appropriate repair methods.
 - B Removes damaged or necessary trim and moldings.
 - C Removes panels and components that may interfere with or be damaged in repair.
 - D Removes dirt and wax from area to be repaired.
- 3 METAL FINISHING**
- A Grinds paint from damaged area.
 - B Sands damaged area.
 - C Mixes and applies filler; sands to original contour.
- 4 REPAIRS, REPLACEMENTS AND ADJUSTMENTS**
- A Determines extent of damage to body panels or sections; plans methods and order of repair.
 - B Removes, replaces and/or aligns body parts and checks for fit.
 - C Welds cracked or torn body panels.
 - D Restores contour of stretched body panel areas, using heat shrink technique.
 - E Restores contour of stretched body panel areas, using cold shrink technique.
 - F Cuts and removes damaged body sections with pneumatic and other tools.
 - G Applies protective coating and sealants.
- 5 GLASS AND HARDWARE**
- A Inspects, adjusts, repairs and/or replaces glass components, channels and mechanisms.
- 6 FRAME INSPECTION AND REPAIR**
- A Determines extent of structural damage, measuring against manufacturer's specifications.
 - B Straightens and aligns body components.
 - C Cleans, primes and coats repaired unibody structural areas.
- 7 ESTIMATING**
- A Demonstrates knowledge of estimating concepts.
 - B Calculates repair costs and completes industry standard form.
- 8 SANDING AND PREPARATION**
- A Chemically and mechanically removes paint finish.
 - B Masks trim and other areas not to be refinished.
 - C Cleans area to be refinished with proper solvent.
- 9 PRIMING AND SEALING TECHNIQUES**
- A Selects primer appropriate to task.
 - B Mixes and sprays primer.
 - C Dry or wet sands primed surfaces.
 - D Applies sealer.
 - E Applies adhesion promoter.
 - F Applies stone chip-resistant coating to lower body areas.
 - G Restores corrosion-resistant coatings, caulking and seam sealers to repair areas.

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- 10** **SPRAY PAINTING PROCEDURES**
- A Selects proper base and finish coat.
 - B Masks and covers portions of surfaces not to be painted.
 - C Prepares paint for application according to manufacturer's recommendations.
 - D Selects proper air pressure and spraying techniques.
 - E Applies final coat.
- 11** **AUTOMOTIVE COLOR MATCHING**
- A Understands color matching concepts and complexities.
- 12** **PAINT CARE**
- A Cleans and details vehicle after refinishing.
 - B Performs sanding, buffing and polishing processes for finish.
- 13** **PAINT PROBLEMS AND SOLUTIONS**
- A Identifies and corrects spray pattern problems.
 - B Identifies and corrects poor adhesion problems.
 - C Identifies and corrects color problems.
 - D Identifies and corrects the appearance of fish eyes, lifting distortion, shriveling, overspray and pinholing.
- Workplace Skills and Behaviors**
- 1**
- A Consistently arrives on time.
 - B Participates in discussion and activities in a positive manner.
 - C Demonstrates professionalism in appearance and behavior.
 - D Prioritizes and organizes tasks to ensure timely and accurate completion.
 - E Accesses and utilizes resources appropriately including written materials and technical support.
 - F Understands and communicates the principles and basic terminology of the collision industry.
 - G Follows established procedures.
 - H Performs basic mathematical computations.
 - I Demonstrates the ability to work independently.
 - J Functions as a team member, working cooperatively/collaboratively in a simulated workplace environment.
 - K Demonstrates an understanding of the collision industry and can discuss the application of individual skills mastered relative to the industry.
 - L Respects diversity.
- Job Acquisition Skills/Lifelong Learning Opportunities**
- 1**
- A Completes an appropriate resume and job application.
 - B Models job interview techniques.
 - C Attains awareness of advanced career and educational opportunities and the need for continuous education.