Course Description: Expanded training in mixing and spraying of automotive topcoats. Emphasis on formula ingredient, reducing, thinning, and special spraying techniques. Introduction to partial panel refinishing techniques and current industry paint removal techniques. The student will mix and spray topcoats; identify and select paint formulas and ingredients; and reduce and thin topcoats for spraying. The student will perform partial panel refinishing tasks and the paint removal process.

Students MUST actively participate by completing an academic assignment required by the instructor by the official census date. Students who do not actively participate in an academically-related activity will be reported as never attended and dropped from the course.


Students will need to provide: safety glasses, face mask, and paint suit.

Course Goals/Objectives: At the completion of this course, the student will be able to demonstrate knowledge of general shop safety, personal and equipment safety, including HAZMAT and Right to Know training; his/her ability to identify and demonstrate the use and care of the various types of spray guns found in the collision repair industry. Specifically the student will be able to:

1. Identify, disassemble and assemble HVLP and siphon feed spray guns.
2. Service and maintain compressed air equipment according to manufacturer specifications.
3. Adjust air pressure, pattern and fluid delivery of spray gun to achieve proper atomization.
4. Demonstrate proper gun handling techniques required to achieve required surface appearance.
5. Properly clean and maintain spray guns.
6. Determine the proper undercoat to apply to plastic, fiberglass, aluminum, galvanized steel and various other substrates.
7. Mix various undercoats and topcoats according to manufacturer specifications.
8. Apply undercoats according to manufacturer’s specifications.
9. Determine the need for and perform spot, panel and overall refinish jobs.
10. Locate VIN plate and identify color codes.
11. Select paint formulas and ingredients for matching OEM and aftermarket refinish repairs.
12. Perform paint removal process recommended by different auto manufacturers.
Student Contributions and Class Policies:

1. Student/Participant must furnish a set of approved safety eye glasses, face mask, and paint suit.

2. Student/Participant must understand class attendance is critical; therefore, three consecutive absences or five total absences may be considered justification for failure or dismissal from class.

3. Punctuality, being prepared for class, being alert, participating pro-actively and exhibiting a respectful and appropriate attitude will be required.

Evaluation of Students:  

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chapter Questions &amp; Final Exams</td>
<td>40%</td>
</tr>
<tr>
<td>Attendance</td>
<td>10%</td>
</tr>
<tr>
<td>Lab Tasks</td>
<td>50%</td>
</tr>
<tr>
<td><strong>Total</strong></td>
<td><strong>100%</strong></td>
</tr>
</tbody>
</table>

90 and above  A  
80-89  B  
70-79  C  
60-69  D  
59 and below  F

Course Schedule: This class meets for 2 lecture hour and 3 lab hours per week.

SCANS Information: SCANS skills are taught and/or reinforced in automotive courses. The student must locate, read, interpret and understand instruction information and direction materials. The participant must communicate thoughts, ideas and information through verbal and written mediums. Practical arithmetic and mathematics will apply continually throughout automotive technology training. Listening, interpreting, and responding to verbal communications and instructions as well as speaking in response to questioning will be a daily involvement. Thinking, reasoning, visualizing and problem solving are required assets to the automotive technician. The student/participant must display responsibility, self-management and honesty.

Administrative Information:  
Curt Pervier, Division Chair  
Technical Studies  
Lisa Hays, Division Secretary  
Technical Studies  
(432) 685-4676  
Fax: (432) 685-6472

Students should feel free to contact the instructor at any time. Appointments are encouraged for advising and planning the most appropriate or beneficial course work.
*Syllabus subject to change as deemed necessary by the instructor to ensure learning objectives and course goals are met.

**Students with Disabilities**

Midland College provides services for students with disabilities through Student Services. In order to receive accommodations, students must place documentation on file with the Counselor/Disability Specialist. Students with disabilities should notify Midland College prior to the beginning of each semester. Student Services will provide each student with a letter outlining any reasonable accommodations. The student must present the letter to the instructor at the beginning of the semester.

Midland College does not discriminate on the basis of race, color, national origin, sex, disability or age in its programs and activities. The following individuals have been designated to handle inquiries regarding the non-discrimination policies: Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, tbaker@midland.edu; Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, nmorgan@midland.edu. For further information on notice of non-discrimination, visit http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm or call 1 (800) 421-3481.

**Spanish**

Midland College no discrimina por motivos de raza, color, nacionalidad, sexo, discapacidad, o edad en sus programas o actividades. Las siguientes personas han sido designadas para responder a cualquier pregunta o duda sobre estas políticas no discriminatorias: Tana Baker, Title IX Coordinator/Compliance Officer, 3600 N. Garfield, SSC 242, Midland, TX 79705, (432) 685-4781, tbaker@midland.edu; Natasha Morgan, Director Human Resources/Payroll, 3600 N. Garfield, PAD 104, Midland, TX 79705, (432) 685-4534, nmorgan@midland.edu. Para más información sobre estas políticas no discriminatorias, visite http://wdcrobcolp01.ed.gov/CFAPPS/OCR/contactus.cfm o llame al 1 (800) 421-3481.