	<p><b><i>Auto Body Repair Program Guide</i></b> CIP Code # 47.0603</p>
<p><b>Standard Occupational Classifications</b></p>	<p>49-3021.00 Automotive Body and Related Repairers 51-9122.00 Painters, Transportation Equipment 41-2022 Parts Salesperson</p>
<p><b>2014 Pennsylvania High Priority Occupations</b></p>	<p>13-1031 Claims Adjusters Examiners &amp; Investigators<sup>3</sup> 51-4121 Welders, Cutters, Solderers &amp; Brazers<sup>3</sup> 49-3021 Automotive Body &amp; Related Repairers<sup>3</sup></p>
<p><b>Student Certifications</b></p>	<p>ECTS Program Completer or Participant Pennsylvania Skills Certificate SP2 “Collision Safety” SP2 “Pollution Prevention” Pennsylvania State Inspection License Pennsylvania State Emissions License</p>

Key: <sup>1</sup>Statewide HPO      <sup>2</sup>Regional HPO      <sup>3</sup>Both Statewide and Regional HPO  
For more information, go to: <http://online.onetcenter.org/find/family?f=17&g=Go>

***Program Prerequisites***

The Collision Repair industry is rapidly and continuously advancing in both manufacturing and repair technologies. The Collision Repair Program is designed to stress the most important characteristics and basic skills required for the success of an entry-level technician. Listed below are the characteristics, qualities and expectations that are considered to be essential for the success of the student and eventually the technician.





First and foremost it must be understood that collision repair is a LABOR INTENSIVE occupation. Almost all the work done is either loud, dusty or will involve the use of hazardous chemicals.




The student should possess the following traits:




- Excellent attendance.
- Good/hand eye coordination and no respiratory problems.
- Good problem solving skills; students will be faced with many decisions and need to be able to reason their way through them in a logical sequence.
- SAFETY CONSCIOUS. Safety must be an attitude rather than an exception.
- Good basic math skills, familiar with addition, subtraction, multiplication and division of whole numbers and fractions. Students should be able to read a fractional and metric ruler and also be able to work with ratios.
- Self-motivated and able to work independently as well as part of a team.
- Able to communicate well in writing and verbally.


Listed below are the items each student must supply.

**Auto Body Hand Tool Requirements Level One**

<b>Tool</b>	<b>Photo</b>	<b>Estimated Cost of Life-Time Guaranteed Tools (Don't need to be new tools.)</b>
1. Needle Nose Pliers		
2. Combination Pliers		
3. Locking Pliers (Vise Grips)		
4. Screwdriver Set (6 piece) Straight Blade and Phillips		

<p>5. Wrench Sets</p> <ul style="list-style-type: none"> <li>• Combination Fractional sizes 6pt.</li> <li>• Combination Metric sizes 6 pt.</li> </ul>		
<p>6. Adjustable Wrench 12" (crescent)</p>		
<p>7. Socket Wrench Sets</p> <ul style="list-style-type: none"> <li>• 1/4" Drive, Deep and Shallow Well 6 pt. Fractional Sizes</li> <li>• 1/4" Drive, Deep</li> </ul>		

<p>and Shallow Well 6 pt. Metric Sizes</p> <ul style="list-style-type: none"> <li>• 3/8" Drive, Deep and Shallow Well 6pt. Fractional Sizes</li> <li>• 3/8" Drive, Deep and Shallow Well 6 pt. Metric Sizes</li> </ul>		
<p>8. Ball Peen Hammer</p>		
<p>9. Compressed Air Blow Gun</p>		
<p>10. Pick Hammer</p>		

11. Universal Dolly		
12. Sponge Pad		
13. Squeegee		
14. Rubber Sanding Block		
15. Tool Box		




In addition to the above listed tools students are required to have:

1. One Piece Coveralls
2. Work Boots with oil resistant soles
3. Leather Gloves
4. Solvent resistant Rubber Gloves
5. Three Ring Binders for Notebooks and Portfolio
6. Disposable Camera

This is a partial list of common hand tools that employers expect an entry-level technician bring on the job. It is suggested that a good quality brand with a lifetime guarantee be chosen. The reason for quality tools is for safety and also value. Research your options before making any purchases.

### Auto Body Hand Tool Requirements Level Two

1. Six inch (6") Dual Action Sander.	
2. Five inch (5") Air Grinder.	
3. Air ratchet (1/4" or 3/8" drive)	
4. Sixteen inch (16") Hand Board	

5. Crow Foot Upholstery Tool.	
6. Buffing Spur.	
7. HVLP (high volume low pressure) Gravity Feed Paint Gun.	

Auto Body Hand Tool Requirements Level Three

1. Air (Board) File.	
2. Air Cut-off tool (AURasive wheel).	
3. Torx Socket set (1/4 and 3/8 drives).	

4. Heel Dolly.



## Auto Body Repair Planned Courses

Content Area	Course Title	Course Number	Course Hours
<b>00</b>	<b>Intro to Auto Body</b>		
	Orientation, Shop Safety and Efficiency	AUR101	45
	Principles of Design, Construction, Lifting and Supporting	AUR102	45
	Introduction to Careers	AUR103	30
	Hand Tool Technology	AUR104	30
	Math for Auto Body Repair	AUR105	15
	Power Tool Technology	AUR106	30
	Math for Auto Body Repair II	AUR107	15
	Compressed Air System Technology	AUR108	30
	Leadership	PFS109	7.5
		PFS110	7.5
	Applied Math II	AUR201	15
	MIG Welding Equipment & Technology	AUR202	30
	Service Info Specs and Measurements	AUR203	45
	Body Shop Materials & Fasteners	AUR204	30
	Business Principles	PFS209	7.5
		PFS211	7.5
	Applied Math III	PFS301	15
	Total Quality Principles	PFS309	7.5
		PFS310	7.5
<b>10</b>	<b>Estimating</b>		
	Damage Appraisal	AUR211	45
<b>20</b>	<b>Minor Repairs</b>		
	Working Sheet Metal	AUR121	30
	Using Body Fillers	AUR122	45
	Hood Bumper, Fender, Lid and Trim Service	AUR221	45
	Door, Roof and Glass Service	AUR222	45



	Repairing Plastics	AUR321	45
	Passenger Compartment Service	AUR322	45
<b>30</b>	<b>Major Body Frame Repairs</b>		
	Welded Panel Replacement	AUR231	45
	Restoring Corrosion Protection	AUR232	45
	Uni-body Frame Realignment	AUR331	30
	Body/Frame Damage Measurement	AUR332	30
<b>40</b>	<b>Mechanical and Electrical Repairs</b>		
	Chassis Service and Wheel Alignment	AUR341	45
	Electrical/Electronic System Operation and Service	AUR342	45
	Restraint System Operation & Service	AUR343	45
<b>80</b>	<b>Refinishing</b>		
	Vehicle Surface Prep and Masking	AUR181	45
	Refinish Equipment Technology	AUR281	45
	Refinishing Procedures	AUR282	30
	Paint Problems & Final Detailing	AUR381	45
<b>90</b>	<b>Collision Repair Professionalism</b>		
	Job Success & ASE Certification	AUR191	30
	LII Lab Practices I	AUR291	30
	LII Lab Practices II	AUR292	45
	LII Lab Practices III	AUR293	30
	LII Lab Practices IV	AUR294	30
	LIII Lab Practices I	AUR391	30
	LIII Lab Practices II	AUR392	45
	LIII Lab Practices III	AUR393	30
	LIII Lab Practices IV	AUR394	30