



# Auto Collision Repair & Refinish Technician

Program No: 31-405-1

Technical Diploma

Degree Completion Time: Two Terms

In general, an academic year consists of two terms; however, degree completion time may vary based on student scheduling needs and class availability.

2013-2014

Catalog No.	Class Title	Credit(s)	
			<b>About the Career</b>
			Whether you own an old car in need of restoration or have the misfortune of owning a new car crumpled in an accident, having a highly skilled auto collision technician work on your car is your top priority. This program prepares learners to enter the competitive collision repair industry. The Auto Collision Repair & Refinish Technician program is for driven, highly motivated individuals who like hands-on type work and who enjoy seeing the results of their labors.
			<b>Careers</b>
			<ul style="list-style-type: none"> <li>• Auto Body Painter</li> <li>• Customer Service Representative</li> <li>• Estimator</li> <li>• Auto Collision Technician</li> <li>• Auto Sales Representative</li> <li>• Industrial Refinishing Technician</li> <li>• Insurance Adjuster</li> <li>• Paint Company Representative</li> </ul>
			<b>Admissions Steps</b>
			<ul style="list-style-type: none"> <li>• Submit Application and \$30 Processing Fee</li> <li>• Complete an Assessment for Placement (Accuplacer or ACT)</li> <li>• Submit Official Transcripts (High School and Other Colleges)</li> <li>• Meet with Program Advisor</li> <li>• Complete Functional Ability Statement of Understanding Form</li> <li>• Complete the OSHA Medical Evaluation Questionnaire</li> </ul>
			<b>Program Outcomes</b>
			You'll learn to:
			<ul style="list-style-type: none"> <li>• Examine vehicles to determine type and extent of damage to be repaired, using 3D electronic measuring equipment.</li> <li>• Replace damaged auto body parts.</li> <li>• Repair tears in auto body steel and aluminum panels using GMAW welding equipment.</li> <li>• Weld light gauge steel (can become I-CAR GMAW Steel Certified).</li> <li>• Straighten and align unibody structural panels.</li> <li>• Repair plastic vehicle parts using adhesives and airless welding equipment.</li> <li>• Develop skills in the fundamentals of collision repair.</li> <li>• Apply paint, including skills in applying color theory, tinting, and blending.</li> <li>• Diagnose electrical circuits using a digital volt/ohm meter.</li> </ul>
			<ul style="list-style-type: none"> <li>• Troubleshoot and repair automotive air conditioning systems (can become EPA and Wisconsin State certified (ATCP 136) for air conditioning).</li> <li>• Complete customer work according to industry standards.</li> <li>• Maintain a clean and safe working environment.</li> <li>• Apply corrosion protection.</li> <li>• Detail automotive finishes.</li> </ul>
			<b>Approximate Costs</b>
			<ul style="list-style-type: none"> <li>• \$132 per credit (resident)</li> <li>• \$198 per credit (out-of-state resident)</li> <li>• Other fees vary by program (books, supplies, materials, tools, uniforms, health-related exams, etc.)</li> </ul>
			<b>Certification and Testing Options</b>
			The program is certified by NATEF (National Automotive Technicians Education Foundation). Students are eligible for I-CAR Welding Certification Testing. Students are well prepared to take the ASE (Automotive Service Excellence) Exam.
			<b>Special Note</b>
			Students are required to purchase Snap-On tools. Tool cost average \$3,200 as you progress through the program.
			<b>Functional Abilities</b>
			Functional abilities are the basic duties that a student must be able to perform with or without reasonable accommodations. At the postsecondary level, students must meet these requirements, and they cannot be modified. See program website for functional abilities.
			<b>Placement Scores</b>
			Accuplacer/ACT scores will be used to develop your educational plan. Please contact your program counselor/advisor at 920-693-1109.
<b>Term 1</b>			
31405304	Auto Collision Electrical Mechanical	3.00	
31405320	Auto Collision Orientation and Safety	1.00	
31405322	Auto Collision Panel Repair	3.00	
31405324	Auto Collision Plastic and Composite Panel Repair	2.00	
31405326	Auto Collision Panel Replacement and Alignment	3.00	
31405328	Auto Collision Structural Analysis	3.00	
31405332	Auto Collision Wire Welding	2.00	
31809363	Challenging Issues	1.00	
	<b>Total</b>	<b>18.00</b>	
			<b>Term 2</b>
31405340	Auto Refinishing Orientation/Safety	1.00	
31405342	Auto Refinishing Masking/Preparation	2.00	
31405344	Auto Refinishing Multiple Panel	3.00	
31405346	Auto Refinishing Color Matching/Blending	4.00	
31408348	Auto Refinishing Water Borne Systems	3.00	
31801359	Communication Skills for the Workplace	2.00	
	<b>Total</b>	<b>15.00</b>	
	<b>Program Total</b>	<b>33.00</b>	
Note:	Class start dates vary; check with your counselor for details.		
	Curriculum and program acceptance requirements are subject to change.		

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**31405304 Auto Collision Electrical Mechanical**

...prepares the learner to troubleshoot auto collision electrical circuits; examine basic electrical circuits; interpret electrical circuit diagrams; service an automotive battery, lighting system, and passive restraint systems; and perform soldering and splicing of electrical components. Students will learn how to diagnose and service air conditioning systems and become state and EPA certified. This course is designed to save time and effort in auto collision repair.

**31405320 Auto Collision Orientation and Safety**

...introduces the learner to the auto collision course procedures, practices, and grading policy and develops safe work habits and attitudes. Many of the hand and power tools are identified.

*CONDITION: 314051 Auto Collision Repair & Refinish Technician Admission Requirements Met*

**31405322 Auto Collision Panel Repair**

...provides the learner with hands-on activities to gain the skills necessary for metal finishing, panel straightening, application of body fillers, and use of hydraulics to straighten panels and make body panel adjustments.

*COREQUISITE: 31405320 Auto Collision Orientation & Safety; and CONDITION: 314051 Auto Collision Repair & Finish Technician Admission Requirements Met*

**31405324 Auto Collision Plastic and Composite Panel Repair**

...prepares the learner to work on repairing damaged plastic panels using adhesives and airless welding techniques. The repair of SMC, FRP, ABS, TPO, and other popular plastics are taught.

*COREQUISITE: 31405322 Auto Collision Panel Repair and 31405320 Auto Collision Orientation & Safety*

**31405326 Auto Collision Panel Replacement and Alignment**

...prepares the student to apply straightening, welding, restoring, corrosion protection, alignment, and panel replacement skills.

*COREQUISITE: 31405324 Auto Collision Plastic Composite Panel Repair, 31405320 Auto Collision Orientation & Safety and 31405332 Auto Collision Wire Welding*

**31405328 Auto Collision Structural Analysis**

...provides the learner with knowledge and hands-on experiences in measuring and analyzing frames, body panels, and alignments using tape measures, tram and self-centering gauges, and computerized measuring system. Some structurally damaged panels may be replaced if time and vehicle damage exist.

*COREQUISITE: 31405326 Auto Collision Panel Replacement & Alignment and 31405320 Auto Collision Orientation & Safety*

**31405332 Auto Collision Wire Welding**

...introduces the learner to information and skills necessary to safely operate gas metal arc welding, aluminum welding, and oxyacetylene cutting as it applies to auto collision. Upon completion, the student is prepared to take the I-CAR steel weld qualification test.

**31405340 Auto Refinishing Orientation/Safety**

...introduces the learner to auto collision and refinishing course procedures, practices, and grading policy and develops safer work habits and attitudes.

*CONDITION: 314051 Auto Collision Repair & Refinish Technician Admission Requirements Met*

**31405342 Auto Refinishing Masking/Preparation**

...enhances the learner's ability to understand automotive finishes and the equipment, paint area, and refinish area and to develop a thorough understanding of surface preparation as it relates to vehicle refinishing.

*COREQUISITE: 31405340 Auto Refinishing Orientation/Safety*

**31405344 Auto Refinishing Multiple Panel**

...provides the learner with the skills to spray complete panels and vehicles using the latest spray technology and equipment, troubleshoot paint problems, and detail the finish to a preaccident condition.

*COREQUISITE: 31405342 Auto Refinishing Masking/Preparation and 31405340 Auto Refinishing Orientation/Safety and 31405348 Auto Refinishing Water Borne Systems*

**31405346 Auto Refinishing Color Matching/Blending**

...prepares the student with an understanding of color movement using the color wheel and the differences in spray gun technique as it applies to blending and how to solve paint color matching problems, finish defects, causes, and cures.

*COREQUISITE: 31405344 Auto Refinishing Multiple Panel and 31405340 Auto Refinishing Orientation/Safety*

**31405348 Auto Refinishing Water Borne Systems**

...provides the learner with specific knowledge and skills necessary to work with water borne products. Learners will be introduced to application methods, mixing and other considerations unique to water borne refinishing systems.

*COREQUISITES: 31405340 Auto Refinishing Orientation/Safety and 31405342 Auto Refinishing Masking/Preparation*

**31801359 Communication Skills for the Workplace**

...prepares the student to develop paper job-search tools and job-related writing skills to increase job stability; introduces the students to team-building skills to resolve organizational problems; introduces the student to the skills of effective listening; prepares the student to respond to workplace criticism and praise; and introduces the student to interpersonal relationship skills, including effective interviewing skills, customer relations, and management/employee relations.

**31809363 Challenging Issues**

...prepares the learner to understand the challenging occupational and social issues and problems that shape the direction of today's work world and become aware of what those contemporary issues are, how the issues impact the student, and how the student can make changes when necessary.