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Auto Collision Repair & Refinish Technician Program

Course Curriculum

Semester 01 (Tuition: \$3,680)

Course #	Course Title	Credits
31-404-337	Auto Body Mechanics Chassis	2
Credits: 2 Lecture Hours: 12 Lab Hours: 60 Students evaluate, diagnose, and repair damage to automotive drivetrains, steering and suspension systems, and braking systems as it applies to collision damaged vehicles.		
31-404-347	Electrical Fundamentals	2
Credits: 2 Lecture Hours: 18 Lab Hours: 54 Students gain the ability to apply the fundamentals of electricity and electronics with automotive as its emphasis. Students apply the principles of Ohm's law, circuit requirements, current flow, voltage, electrical schematics and symbols. Students gain a working knowledge of scan tools and test meters. Students recognize the importance of Advanced Driver Assistance Systems and the other electrical safety devices built into the motor vehicle and diagnoses and repairs electrical problems.		
31-405-356	Auto Body Welding	3
Credits: 3 Lecture Hours: 20 Lab Hours: 88 The student analyzes damaged vehicles and estimates repair costs with a computer. The student uses electronic measuring systems to diagnose damage to vehicle structure and repairs damage using proper equipment and safety procedures. The student participates in customer service scenarios. Prerequisites: Buffing & Detailing (31-405-364)		
31-405-364	Buffing & Detailing	2
Credits: 2 Lecture Hours: 18 Lab Hours: 54 The student learns safe work procedures and uses vehicle cleaning equipment to detail vehicles. The student learns the proper methods to buff and polish automotive finishes.		
31-405-365	Bolt-On Panels & Dent Repair	4
Credits: 4 Lecture Hours: 27 Lab Hours: 117 Students remove, replace and adjust hoods, fenders, bumpers, and doors. They repair minor dents on steel body panels.		
31-405-366	Fundamentals of Painting	2
Credits: 2 Lecture Hours: 18 Lab Hours: 54 The student learns safe work procedures for personal safety and environmental compliance. Students perform surface preparation procedures and learn the proper use and care of refinishing equipment. Students mix refinish materials and apply it to practice panels.		

31-804-305 Applied Mathematics 2

Credits: 2 Lecture Hours: 72

Students compute with rational numbers. They make and convert various measurements. Students use formulas to solve problems. They compute dimensions of geometric shapes. Students use statistical tools to represent and analyze data. They analyze various financial situations. Students use basic right triangle trigonometry to solve problems. In each topic area, students solve application problems.

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Semester 02 (Tuition: \$3,520)

Course #	Course Title	Credits
31-404-338	Auto Body Mechanics HVAC & Restraints	2

Credits: 2 Lecture Hours: 12 Lab Hours: 60

Students evaluate, diagnose, and repair damage to automotive cooling, air conditioning, fuel, intake, exhaust, and restraints systems as it applies to collision damaged vehicles.

31-405-367	Damage Analysis, Estimating, & Customer Service	3
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Credits: 3 Lecture Hours: 36 Lab Hours: 72

The student analyzes damaged vehicles and estimates repair costs with a computer. The student uses electronic measuring systems to diagnose damage to vehicle structure and repairs damage using proper equipment and safety procedures. The student participates in customer service scenarios. Prerequisites: Fundamentals of Painting (31-405-366) and Auto Body Welding (31-405-356)

31-405-368	Structural Repair	3
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Credits: 3 Lecture Hours: 36 Lab Hours: 72

The student uses proper procedures and equipment operation to repair and replace damaged structural panels on unibody and full frame vehicles. Prerequisites: Damage Analysis, Estimating, & Customer Service (31-405-367)

31-405-369	Intermediate Painting	2
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Credits: 2 Lecture Hours: 18 Lab Hours: 54

The student safely mixes and applies various refinish products to a vehicle. The student sprays primers, waterborne base colors, and clear coats on vehicles. Prerequisites: Structural Repair (31-405-368)

31-405-370	Advanced Painting	3
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Credits: 3 Lecture Hours: 20 Lab Hours: 88

The student inspects and analyzes paint defects and determines corrective action. The student learns to develop a refinish repair plan and perform the proper safety procedures. Matching existing vehicle finish with blending techniques is performed on vehicles. Prerequisites: Intermediate Painting (31-405-369)

31-405-371	Auto Collision Internship	1
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Credits: 1 Lecture Hours: 0 Occupational Hours: 72

In an occupational setting, students apply technical theory and skills by performing light autobody repair. Students practice the necessary personal and professional skills essential to be successful auto collision and refinishing technician.

31-801-310	Workplace Communication	2
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Credits: 2 Lecture Hours: 72

Students apply oral, written, listening, and non-verbal skills to workplace situations. Students discover how to use communication as the key to solving workplace problems, resolving conflicts, working as members of a

team, and effectively giving and receiving criticism. Students develop an understanding of diversity in the workplace, harassment issues, and the impact of substance abuse on the job.

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Total Credits: 33

Estimated Total Tuition*: \$7,200

Tools/Equipment: \$200 (lease)