AUTOBODY AND PAINT TECHNOLOGY (ITC)

Interm Technical Certificate

Career-Technical Program
Interest Areas:
Manufacturing and Trades

The Autobody and Paint Technology Program prepares students for rewarding careers in the collision repair and refinishing industry, the custom paint and car restoration fields, or for self-employment in related collision repair areas. The program is approved by the Inter-Industry Conference on Auto Collision Repair (ICAR) and includes hands-on training utilizing the latest techniques and equipment in the industry. Training includes computerized estimating and measuring systems, paint mixing, refinishing, spot repair, steel and aluminum MIG welding, plastic and fiberglass repair, electical, and custom painting. Learning takes place on mock-up vehicles first semester to build fundamental skill sets and primarily "real" customer projects second semester. Students have the opportunity to earn multiple I-CAR and Institute for Automative Service Excellence (ASE) certifications.

Contact Information:
Trades & Industry Division
Parker Technical Education Center
7064 West Lancaster Road
Rathdrum, ID 83858
Phone: (208) 769-3448
Program Website (https://www.nic.edu/collision/)

Program Requirements

Course	Title	Credits
Semester 1		
ACRR-161	Exterior and Interior Renovation	1
ACRR-162	Fundamentals of Collision Repair	4
ACRR-163	Damage Analysis and Small Dent Repair	2
ACRR-164	Introduction to Paint Refinishing	1
ACRR-165L	Collision Repair Lab I	6
ACRR-166L	Collision Repair Lab II	5
WELD-140	Autobody and Paint Technology Welding	2
Select one of the following:		3-5
MCTE-101	Technical Mathematics	
GEM 3 - A.A.S. Mathematical Ways of Knowing		
	Credits	**24-26**
Semester 2		
ACRR-171	Paint Refinishing Fundamentals	3
ACRR-172	Damage Analysis and Estimating	2
ACRR-173	Measurement and Structural Analysis	2
ACRR-174	Surface Prep and Adhesive Bonding	1
ACRR-175L	Collision Repair Lab III	5
ACRR-176L	Collision Repair Lab IV	5
ATEC-117	Occupational Relations and Job Search	2
ENGL-101 or ENGL-101P	Writing and Rhetoric I or Writing and Rhetoric I	3
	Credits	**23**
	Total Credits	**47-49**

Course Key

GEM	AAS	Gateway	Milestone
	Institutionally Designated		

Program Outcomes

Upon completion of the program, students will be able to:

1. Select and consistently demonstrate proper overall shop safety procedures in the auto collision repair industry.
2. Explain both unibody and full frame vehicle construction and how these structures react in a variety of collision circumstances.
3. Properly remove and install all basic vehicle components including sheet metal parts, glass windshields and doors, passive resistant systems, bumpers, trim, as well as suspension and steering mechanisms.
4. Explain the basic principles and perform the proper techniques for sheet metal rough out and repair.
5. Explain the fundamentals of paint refinishing and demonstrate refinishing techniques through the proper use of equipment.
6. Identify structural damage and develop an industry acceptable repair sequence for a variety of different damage scenarios.
7. Explain the basic principles and perform the proper techniques for plastic and composite repair including the use of nitrogen welding.
8. Explain the basic principles and perform the proper techniques for Gas Metal Arc Welding (GMAW).
9. Explain the basic principles of analyzing damage (blueprinting) and create hand written and computerized estimates.
10. Describe and model proper work habits and employ communication practices and computation skills appropriate to the auto collision repair industry.