Auto Collision Repair and Refinish Technician

31-405-1 Technical Diploma

Financial Aid Eligible

Campus:
Rice Lake

WISCONSIN INDIANHEAD TECHNICAL COLLEGE

Program Overview

The Auto Collision Repair and Refinish Technician program will prepare students to perform repairs on vehicles that have collision damage. This one-year program involves straightening dents, replacing panels, and refinishing the repaired areas. Students will gain hands-on experience by repairing customer vehicles and by working with the latest repair and refinishing equipment.

Special Feature

This program uses advanced I-CAR (Inter-Industry Conference on Auto Collision Repair: **www.i-car.com**) curriculum training modules. The core training program includes:

- Fundamentals of collision repair
- Vehicle identification, estimating, and terminology
- Frontal impact analysis; mechanical systems analysis
- Restraints, interior, glass, and side and rear impact analysis
- Structures damage analysis
- Hazardous materials, personnel safety, and refinish safety
- Corrosion protection

Admission Requirements

Students in this program must:

- Complete application form and submit with fee (fee waiver may apply if previously submitted)
- Complete Accuplacer entrance assessment to determine placement (waiver may apply with acceptable alternative test scores and/or postsecondary degree completion)
- Take a color blind test
- Complete admissions interview with a WITC counselor (above requirements should be completed prior to interview)

Student Profile

Auto Collision Repair and Refinish Technician students should:

- Be able to use independent judgment to plan work and select proper tools
- Be able to handle and manipulate tools and equipment
- Have color vision
- Assume responsibility for the quality of their work
- Be able to communicate and relate to customers and co-workers
- Enjoy hands-on mechanical work
- Be a team player
- Be self-motivated

Preparation for Admission

Students should strive to reach a comfort level in the following courses or skills:

- Auto Body Repair and Refinishing
- Basic Mathematics
- Automobile Mechanics
- Machine Shop
- Welding
- Basic English
- Art

Program Outcomes

Employers will expect Auto Collision Repair and Refinish Technician graduates to be able to:

- Straighten collision-damaged sheet metal
- Refinish automobile body parts
- Replace non-structural panels and parts
- Perform auto collision welding procedures

Collegewide outcomes and indicators will also be addressed to develop personal awareness, career effectiveness, and professionalism. See page 5 for a list of collegewide outcomes and indicators.

Career Outlook

Typical careers available after graduating from the Auto Collision Repair and Refinish Technician program include:

- Auto Body Technician
- Refinishing Technician
- Paint Representative
- Estimator/Insurance Appraiser
- Service Manager/Shop Owner
- Auto Detailer
- Automobile Restoration Technician
- Equipment and Supplies Specialist
- Unibody/Frame Specialist

Curriculum

Number	Course Title	Credits
Occupational Specific Courses		
31405302	Auto Collision Estimating	1
31405303	Auto Collision Repair Welding	2
31405304	Auto Collision Repair Fundamentals 1	2
31405305	Auto Collision Repair Fundamentals 2 ▲	1
31405306	Auto Collision Repair 1	5
31405307	Auto Collision Repair 2 ▲	5
31405308	Auto Collision Repair 3 ▲	5
31405309	Auto Collision Repair 4 (WBL) ▲	5
31806352	Applied Physical Science	2
32804373	Math 373	2
		30
Occupational Supportive/ General Studies Courses ◗		
10890100	Success Strategies 1	1
32801361	Applied Communications 1	2
32809371	Applied Human Relations	2
		5
PROGRAM REQUIREMENTS		**35**

▲ Requires a prerequisite and/or corequisite that must be completed with a grade point of 2.0 or better.

◗ See page 40 for General Studies course descriptions.

Course Descriptions

(See page 40 for General Studies course descriptions)

31405302
Auto Collision Estimating - Credits: 1
Provides experience writing damage reports (estimates) on vehicles needing repair. Both manual and computer-generated estimates will be covered. Students will explore flat-rate operations, labor costs, repair and refinishing time, markups, and discounts.

31405303
Auto Collision Repair Welding - Credits: 2
Provides students with the technical competence needed to successfully repair collision-damaged vehicles using welding technology. Students will also utilize technology to cut sheet metal and high-strength steel.

31405304
Auto Collision Repair Fundamentals 1 - Credits: 2
This course is an introduction to vehicle construction, damage, and repair, including tools and equipment, selection setup, and safe usage. It covers concepts and needed skills that are required in application in the lab/shop companion course in Auto Collision Repair 1.

31405305
Auto Collision Repair Fundamentals 2 - Credits: 1
This course is a detailed study of refinish materials, surface preparations, and application techniques and procedures of undercoats and topcoats. It involves lecture, demonstration, and lab work. It is a companion course to Auto Collision Repair 2. PREREQUISITE: 31405304 Auto Collision Repair Fundamentals 1.

31405306
Auto Collision Repair 1 - Credits: 5
In this course the student will learn about worker protection in the auto collision work environment, the basics of straightening of steel, trim and hardware repair and replacement, and corrosion protection for vehicles.

31405307
Auto Collision Repair 2 - Credits: 5
In this course the student will learn about the fundamentals and mechanics of refinishing vehicles, measurement to assess the conditions of damage, and fundamentals of collision repair. COREQUISITE: 31405306 Auto Collision Repair 1.

31405308
Auto Collision Repair 3 - Credits: 5
In this course the student will learn about the repair and refinishing of plastic in auto collision repair, structural straightening of steel in actual auto bodies, and repair of the exterior panel of a damaged vehicle. PREREQUISITE: 31405307 Auto Collision Repair 2.

31405309
Auto Collision Repair 4 (WBL) - Credits: 5
In this course the student will learn about the fundamentals of vehicular electronics, heating and cooling systems, and restraints. COREQUISITE: 31405308 Auto Collision Repair 3.

31806352
Applied Physical Science - Credits: 2
Course contains a variety of applied physical science principles including light, color, chemistry, material properties, and direct current electricity. These principles will be applied to applications within the trades.

32804373
Math 373 - Credits: 2
This course covers practical applications of whole numbers, fractions, decimals, percent, proportion, and formula evaluation. The course also includes measurement, U.S. and metric systems of measurement, and basic geometry.

Gainful employment information is available at this link: **http://www.witc.edu/pgmpages/autocoltech/career.htm**. This information is provided as a federal requirement in an effort to help students make informed decisions related to the costs and potential employment in a chosen field.

Graduate Employment Information

(WITC Graduate Survey Responses 2009-2010; for most recent data, go to **witc.edu**)

career vision

Number of graduates	11	Number employed	5	% employed in WITC district	100%
Number of responses	9	Percent employed	83%	Range of yearly salary	$20,798-$24,958
Number available for employment	6	Employed in related field	3	Average yearly salary	$22,185