C₩TECH

Automotive Collision <u>Technology:</u> Program of Study

This program of study can serve as a guide along with other career planning materials as learners continue on a career path. Courses listed within this program are only recommended coursework and should be individualized to meet each learner's education and career goals.





Automotive Collision Technology: Collision Repair Technician

The Automotive Collision Technology program at CV Tech is an I-CAR affiliate program. Students will learn auto detailing, nonstructural collision repair, refinishing, structural collision repair, shop management, and customer service, as well as prepare for the Automotive Service Excellence (ASE) and I-CAR Certifications and gain real-world training needed for a successful career.

Secondary:	Yukon I	High School - 06X11	1745							
Millins	English	Math	Math Science Social St		tudies	Other Required Courses/Electives	Other Required Courses/Electives	Other Required Courses/Electives		
8 th Grade:	8 th Grade English	Pre-Algebra		Geography						
Graduation Requirements	23 Units are required to meet Yukon High School graduation requirements. 4 English, 4 Math, 3 Science, 3 History/S.S., 2 Foreign Language or 2 Computer Science, 1 ts Additional Unit (see *** below), 1 Fine Arts or Speech, 6 Electives, and Keystone (Personal Financial Literacy & CPR/AED).									
9 th Grade:	English/LA I*	Algebra I*	Physical Science*	Oklahoma History* (.5 Sem.) / Freshman Keystone* (.5 Sem.)		Foreign Language I* or Computer Technology I*	Fine Arts or Speech*	Introduction to Agriculture Power and Technology**		
10 th Grade:	English/LA II*	Geometry*	Biology I*	U.S. History *		Foreign Language II* or Computer Technology II*	Elective	Agriculture Power and Technology **		
11 th Grade:	English/LA III*	Algebra II*	Chemistry*	World History*		Auto. Collision Tech. – CV Tech	Auto. Collision Tech. – CV Tech	Auto. Collision Tech. – CV Tech		
12 th Grade:	English/LA IV*	See Recommendations Below***	Elective	U.S. Government* (.5 Sem.)/ Senior Keystone* (.5 Sem.)		Auto. Collision Tech. – CV Tech	Auto. Collision Tech. – CV Tech	Auto. Collision Tech. – CV Tech		
Notes:	tes: Courses in Red or with * are Required for Graduation Courses with ** are recommendations for the Automotive Collision Technology Program of Study. If taking Automotive Collision Technology: Collision Repair Technician at CV Tech while in high school, this will take approximately 3 units as Junior and 3 Units as a Senior, for a total of 6 Units.									
					1.8.4 (1					

Secondary Plan





Oklahoma Jobs 2016 – 1,840 Oklahoma Jobs 2026 – 1,870 Median Wage = \$17.56/ Hour Annual Projected Job Openings = 180 www.careeronestop.org









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Secondary/Post-Secondary Plan:

Secondary/Post-Secondary: Ca			Canadian Valley Technology Center 06X111745 – El Reno Campus													
C₩TECH			6	Local Program Name:				Autor	omotive Collision Technology: Collision Repair Technician							
				Career Cluster:	Transportation, Distribution & Logistics			Ca Pat	areer :hway:	Automotive Collis Repair	sion	Hours:	960	OCAS:	9904	
	C	Courses:					Courses:									
11 th Grade*:	* Introduction and Nonstructural: Met Safety Einispes Body Eil		ructural: Metal	al Nonstructural: Metal Welding and Cutting		Painting Refinish	and	Paintin Inface Mixing		g and Refinishing: Matching Applying	Painting and Refinishing		Structural Analysis and Damage Repair: Frame			
	Plastics and Adhes			sives Preparation			and Correcting Defects D			Detailir	etailing Inspection and Repair					
12 th Grade*:	Damage Analysis, Structural: \ Written Estimating, and Inspection, Customer Service Repair and		Structural: V Inspection, N Repair, and	Vehicle Structure Mechanical and Measurement, Electrical Fixed Glass Components			l and ts	Damag and Di Estima	age Analysis Nonstructural: Panel Digital Repair/Replace, Adjustme ating Glass, and Hardware			tments,	nts, Painting and Refinishing: Projects and Live Work		s Read	oyment iness
* Year 13 if student enrolls after high school graduation as a full-time adult student. Note: Course sequence and hours are subject to change.																
Licensure/Certification(s): Automotive (ASE): Me (2060) IE,			rvice Excellenc nical and Elec N-F, PLA	ectrical Automotive Se Repair (2059)			ice Excellence (ASE): Analysis and Damage E, IA, A-F, PLA		Automotive Service Excellence (ASE): Painting and Refinishing (2057) IE, IA, A-F, PLA		Aut Str (20	Automotive Service Excellence (ASE): Structural Analysis and Damage Repair (2058) IE, IA, A-F, PLA			E): Repair	
**Assessment Information: Assessment Code, IR=Industry Required, IE=Industry Endorsed, IA=Industry Aligned, A-F=Accepted for A-F, PLA=Accepted for Prior Learning Assessment Credit Download the Oklahoma Department of CareerTech's Credential Book for more information.																

Post-Secondary/Associates of Applied Science Degree Plan:

Post-Secondary/A	.A.S.:	Oklahoma City	Community College – 55A0						
AN AN	Degree Plan:		Business: Vehicle Service	Management Option					
	Total Credit Hours:		61 (All courses are 3 Credit H	ours, unless noted in parenthesis (#).					
OKLAHOMA CITY									
COMMUNITY COLLEGE		C	ourses	Courses	Courses				
Voor 1	Success in College Life (1)			English Composition I	American Federal Government				
	Introduction to Service Management U.S. History to 1877 OR 1877 to Present Accounting I/Financial			Introduction to Business	Principles of Management				
i cai i				English Composition II OR Technical Writing for th	the Introduction to Public Speaking				
				Workplace OR Interpersonal Communication	Principles of Microeconomics				
Year 1	Busi	ness Communica	ation	Legal Environment of the Workplace	Business (Vehicle Service) Support Elective				
	Acco	ounting II/Manage	erial	Business Ethics	Business (Vehicle Service) Support Elective				
	Sma	ll Business Mana	agement	Supervisory Training	Business (Vehicle Service) Support Elective				
	Mana	agement Capsto	ne		Business (Vehicle Service) Gen Ed Elective				







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Typical Job Duties:

- File, grind, sand, and smooth filled or repaired surfaces, using power tools and hand tools.
- Inspect repaired vehicles for proper functioning, completion of work, dimensional accuracy, and overall appearance of paint job, and test-drive vehicles to ensure proper alignment and handling.
- Fit and weld replacement parts into place, using wrenches and welding equipment, and grind down welds to smooth them, using power grinders and other tools.
- Prime and paint repaired surfaces, using paint spray guns and motorized sanders.
- Follow supervisors' instructions as to which parts to restore or replace and how much time the job should take.
- Sand body areas to be painted and cover bumpers, windows, and trim with masking tape or paper to protect them from the paint.
- Chain or clamp frames and sections to alignment machines that use hydraulic pressure to align damaged components.
- Position dolly blocks against surfaces of dented areas and beat opposite surfaces to remove dents, using hammers.
- Cut and tape plastic separating film to outside repair areas to avoid damaging surrounding surfaces during repair procedure and remove tape and wash surfaces after repairs are complete.
- Review damage reports, prepare or review repair cost estimates, and plan work to be performed.

Knowledge:

- **Mechanical** Knowledge of machines and tools, including their designs, uses, repair and maintenance.
- Customer and Personal Service Knowledge of principles and processes for providing customer services. This includes customer needs assessment, meeting quality standards for services, and evaluations of customer satisfaction.
- Production and Processing Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.
- **Design** Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.
- Physics Knowledge of prediction of physical principles, laws, their interrelationships, and applications to understanding fluid, materials, and atmospheric dynamics, and mechanical, electrical, atomic and sub-atomic structures and processes.

Typical Job Duties and Knowledge Section Information comes from www.onetonline.org



Wage information comes from the <u>Bureau of Labor Statistics, Occupational Employment</u> <u>Statistics Program.</u>



Supported by Oklahoma Department of Career and Technology Education

OKCareerGuide's **Connect2Business®** lets you explore and learn about employers and job opportunities in your community that align with your education and career goals.



(Will replace with businesses that sign up for Connect2Business.) Or, we could possibly replace with information about Collision Works Apprenticeship.





