



Pathway: Agriculture Mechanics -- Basic

Plan of Study: Diesel Equipment Technologies

Career Goal 470699: Repairer/Mechanic Small Engine Technician, Golf course diesel and gas equipment, Light diesel construction equipment Electronics. Heavy diesel apprentice

Suggested High School Courses

High School * Default includes CDHE Higher Education Admission Requirements	9 th	Core Academic Courses*:	English I, Algebra I, Earth /Environmental Science, Geography, U.S. History PE, World Language I (Spanish), Advisory	Suggested Electives: AVID
		Career Path Courses:	Connect 4	
	10 th	Core Academic Courses*:	English II, Geometry, Biology, World History, World Language II, PE (Life Fitness), Advisory	Suggested Electives: Web Design Accounting I AVID Earth, Energy, and the Environment
		Career Path Courses:	CTE Lawn and Garden Equipment Repair Technician	
	11 th	Core Academic Courses*:	English III, Algebra II, Physics, Economics, Advisory	Suggested Electives: Accounting II Web Design II World Language III AVID
		Career Path Courses:	CTE Light Diesel and Commercial Gas Mowing Equipment Repair	
	12 th	Core Academic Courses*:	English IV, Trigonometry, Biotechnology, American Government, Advisory	Suggested Electives: Internship Entrepreneurship AVID
		Career Path Courses:	CTE Golf Course Equipment Repair Technician	

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Northeastern Junior College in diesel and automotive Trinidad State Junior College in Golf Course Superintendent and auto Most other community colleges in Colorado in Auto, Applied Sciences, and Heavy Diesel
	Industry Recognized Certificate(s) or License(s): Voluntary certification is available through National Institute for Automotive Service Excellence (ASE)

Postsecondary Education Opportunities	Postsecondary Programs Available in Colorado		Colorado Institutions	Entrance Exams/ Requirements
	Certificate	Automotive Service & Technology, Automotive Diesel Master Technician, Auto Collision Repair Technology, Diesel/Heavy Equipment Mechanics, Industrial Mechanics, Aviation Maintenance, Aviation Technology	Programs available at many Colorado Community Colleges and Area Technical Schools. For more information go to: www.collegeincolorado.com	High School diploma/GED
	Associate Degree	Automotive Service & Technology, Auto Collision Repair Technology, Automotive Diesel Master Technician, Diesel Power Mechanics, Aviation Technology, Aviation Maintenance	Aims CC, Arapahoe CC, Front Range CC, Morgan CC, Northeastern Junior College, Pikes Peak CC, Pueblo CC, Red Rocks CC, Trinidad State Jr.College, Mesa State College, Northeastern Junior College, CC of Aurora	High School diploma/GED
	Bachelor Degree	Aviation Management, Aviation Technology, Mechanical Engineering Technology, Electrical engineering Technology, Aerospace Engineering, Mechanical Engineering, Electrical Engineering, Engineering Physics, Automotive Industry, Industrial Engineering, Engineering/Mechatronics	For more information about colleges that have these programs go to www.CollegeinColorado.org	See each school's Admissions website.

Graduate Degree	Aerospace Engineering, MS & PhD, Mechanical Engineering, MS & PhD, Electrical Engineering, MS & PhD, Engineering Management, MS & PhD, Mechanical & Aerospace Engineering, PhD, Engineering Systems, MS	For more information about colleges that have these programs go to www.CollegeinColorado.org	See each school's Admissions website.
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Cluster Overview: The **Transportation, Distribution and Logistics Career Cluster** prepares students in planning, management, and movement of people, materials, and goods by road, pipeline, air, rail and water and related professional and technical support services such as transportation infrastructure planning and management, logistics services, mobile equipment and facility maintenance.

Extended Learning Experiences

Curricular Experiences: 1. SkillsUSA 2. Participate in the annual job fair held in my program every year in the spring	Extracurricular Experiences: Participate in the mower repair program for seniors and low income residents.
Work-Based Learning Experiences: Career Preparation – 1. Work in small engine dealerships in the summer. 2. The ability to apply for Caterpillar Heavy Diesel apprenticeship at Wagner equipment after HS graduation. 3. Work for Bobcat of the Rockies 4. Work for a Hustler Turf Mowing equipment company 5. Work for rental organizations repairing equipment 6. Work for LL Johnson doing turf equipment repair 7. Intern at a golf course repairing equipment	Program Accreditation and/or Professional Association(s): EETC (Equipment and Engine Training Council) GCSAA Rocky Mountain Chapter (Golf Course Superintendent's Associations of America) RMRTA (Rocky Mountain Regional Turfgrass Association) MST Briggs and Stratton (Master Service Technicians) TMT (Tecumseh Master Technician)
Service Learning Experiences: Volunteer for free to low cost mower repair for residents	

Career Options:		Salary Range:
Certificate	Seek further training at UTI (universal Training Institute) DADC (Denver Automotive)	\$40-\$95
Associate Degree	Repairer/Mechanic (Automotive Service, Automotive Body, Rail Car, Ship/Motorboat, Aircraft/Airframe, Electronics), Automotive Specialty Technician (Bus, Truck, Diesel, Bicycle, Glass, Tire), Industrial Electrician, Master Mechanic, Mechanical Repair Supervisor	\$\$ - \$\$\$
Bachelor Degree	Facility Maintenance Manager Industrial Engineer	\$\$\$
Graduate Degree	Automotive Engineer Mechanical Engineer	\$\$\$ - \$\$\$\$

- \$ = \$15-25,000; \$\$ = \$25-55,000; \$\$\$ = \$55-90,000; \$\$\$\$ = Above \$90,000

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