



Pathway: Facility & Mobile Equipment Maintenance

Plan of Study: Aviation Maintenance Technician

Career Goal (O*Net Code): 49.3011.00 Aircraft Mechanic

Suggested High School Courses

High School	9 th	Core Academic Courses*:	English I, Algebra I, Earth or Environmental Science, State History/Civics	Suggested Electives: CTE - introduction to business, agriculture, mechanics, welding
		Career Path Courses:	Introductory CTE course – intro. To business, agriculture, wood-working or metal shop	
10 th	Core Academic Courses*:	English II, Geometry, Biology, US History, Foreign Language I	Suggested Electives: CTE – Business, Agricultural Mechanics, Automotive Mechanics	
	Career Path Courses:	Business/accounting, agricultural mechanics, automotive mechanics		
11 th	Core Academic Courses*:	English III, Algebra II/ or other, Chemistry/Physics	Suggested Electives: CTE – any advanced course, Physics	
	Career Path Courses:	Physics		
12 th	Core Academic Courses*:	English IV, Trigonometry or other Math, Lab-based science	Suggested Electives: CTE – any advanced level course.	
	Career Path Courses:	Advanced level CTE course: agriculture, wood/metal shop, auto mechanics.		

Secondary to Postsecondary Linkages & Certifications

Recognition for Advanced Learning	Postsecondary Credit Options: Insert Options Here: ACP, Dual Credit, PSEO, Fast College-Fast Jobs, Articulated Credit
	Industry Recognized Certificate(s) or License(s): FAA – Aircraft Mechanic: Airframe & Powerplant Ratings FAA – Aircraft Mechanic: Airframe Rating (only) FAA – Aircraft Mechanic: Powerplant Rating (only) FAA – Inspection Authorization (A&P Mechanic certificate plus three years experience required)

Colorado Postsecondary Programs Available

Colorado Institutions

Entrance Exams/ Requirements

Postsecondary Education Opportunities	Colorado Postsecondary Programs Available	Colorado Institutions	Entrance Exams/ Requirements
Certificate	Colorado Northwestern Community College – AMT Program, FAA Airframe & Power plant Certification Emily Griffith Opportunity School –AMT, FAA A&P. Redstone College – AMT – FAA A&P	www.collegeincolorado.org Colorado Northwestern Community College Emily Griffith Opportunity School	H.S. Diploma or GED
Associate Degree	Associate of Applied Science in Aviation Maintenance Technology (AAS in AMT)	www.collegeincolorado.org Colorado Northwestern Community College	H.S. Diploma or GED
Bachelor Degree	Bachelor of Science in Aviation Management, Aeronautical Technology, Aviation Business	www.collegeincolorado.org Metropolitan State College Purdue University Embry-Riddle University	Airframe & Power plant Certificate or AAS in AMT
Graduate Degree	M.S. in Aerospace Engineering Sciences MBA	www.collegeincolorado.org University of Colorado Purdue University Embry-Riddle University	Related BS or BA

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

<p>Curricular Experiences:</p> <p>Student Organization Opportunities: - Skills USA - Any Student/Youth Leadership Organization is valuable experience: FFA, DECA, COTSA, FBLA, Scouting USA, etc. Co-Curricular Experiences: - Arrange tour of an aircraft FBO or local airport</p>	<p>Extracurricular Experiences:</p> <p>Civil Air Patrol Experimental Aircraft Association – Young Eagles Program</p> <p>- Have your student organization arrange a tour of a local airport or aircraft business (repair station, FBO,</p>
<p>Work-Based Learning Experiences:</p> <p>Job Shadowing with a local Fixed Base Operator (FBO) or Aircraft Repair Station</p> <p>Non-certificated: fueling aircraft, mechanic's helper, FBO assistant</p>	<p>Program Accreditation and/or Professional Association(s):</p> <p>Program Certification: - Federal Aviation Administration, Federal Aviation Regulations Part 147 - Colorado Department of Higher Education - North Central – Higher Learning Commission</p> <p>Professional Memberships: - Aviation Technical Education Council (ATEC) - Professional Aviation Maintenance Association (PAMA) - Association of Women in Aviation Maintenance (AWAM)</p>
<p>Service Learning Experiences:</p> <p>Volunteer opportunities are available at many airports, FBOs, and aviation repair businesses.</p>	

Career Options:		Salary Range:
Certificate	FAA - Airframe & Power plant Mechanic: inspects, repairs, & maintains general aviation aircraft, business/corporate aircraft, helicopters (hospital, law enforcement, fire-fighting, etc) and air carriers	Beginning: \$-\$ 28 – 35,000 Median: \$\$-\$\$\$ 42 – 54,000 Top: \$\$\$-\$\$\$\$ 66 – 70,000 + (O*Net)
Associate Degree	FAA - Airframe & Power plant Mechanic (see above) Director of Maintenance: record-keeping, maintenance crew management, aircraft maintenance scheduling, customer relations	Beginning: \$ 28 – 35,000 Median: \$\$-\$\$\$ 42 – 54,000 Top: \$\$\$-\$\$\$\$ 66 – 70,000 + (O*Net)
Bachelor Degree	FAA – Airframe & Power plant Mechanic (see above) Director of Maintenance (see above) Aviation Management: oversee business and maintenance operations for aircraft businesses	Median: \$\$-\$\$\$ 42 – 54,000 Top: \$\$\$-\$\$\$\$66 – 70,000 + (O*Net)
Graduate Degree	FAA Airframe & Power plant Mechanic Manufacturing Design Engineer Corporate Manager Aerospace Engineer	A&P Mechanic: \$\$-\$\$\$ 42 – 70,000 + Engineer: \$\$-\$\$\$ 38 – 90,000 + (Air Jobs Digest)

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

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