

# SOUTHWEST TECHNOLOGY CENTER

711 West Tamarack

Altus, OK 73521

580.477.2250

www.swtech.edu



## AEROSPACE MAINTENANCE

### PROGRAM DESCRIPTION

This program is designed to prepare students for high paying jobs as aircraft maintenance technicians and support personnel. Students receive training in aircraft painting, sheet metal, electricity, nondestructive testing, welding, wood and fabric work, composite structures, landing gear repair, and aircraft taxiing. Certified by the Federal Aviation Administration, the program strictly adheres to FAA guidelines. The program provides training in an area identified as a demand occupation for both southwest Oklahoma as well as the state.

### CERTIFICATIONS/EMPLOYMENT

After successful completion of the aviation and aerospace technology program, students are prepared to take the FAA national licensure exams. Students are eligible to take the Airframe & Powerplant license. Employment opportunities are exceptional in both the private sector and in government service.

### SALARY RANGE

Average starting salaries range from \$15.00 to \$18.00

### HELPFUL ATTRIBUTES

General math, Algebra I, General Science or equivalent courses

Reading and math skills at the 10th grade level or above

Average or better mechanical aptitude

Ability to comprehend and apply basic math and physics concepts

Ability to withstand physical labor which include standing, heavy lifting, and working in confined spaces

Good eyesight

### GENERAL AVIATION

600 HOURS

AMT 1005	General Hangar and Shop Safety	12
AMT 1015	Mathematics	30
AMT 1025	Physics and Basic Aerodynamics	42
AMT 1035	Aircraft Ground Handling and Service	30
AMT 1045	Weight and Balance	36
AMT 1055	Structural Materials/Processes & Non-Destructive Inspection	30
AMT 1065	Aircraft Cleaning and Corrosion Control	21
AMT 1075	Aircraft Hardware and Precision Measuring Instrument	27
AMT 1085	Blueprints and Drawings	24
AMT 1095	Hand and Power Tools	24
AMT 1105	Fluid Lines and Fitting	24
AMT 1115	FAR's, Publications, and Records	33
AMT 1125	Basic Electricity and DC Circuits	42
AMT 1135	Aircraft Battery Service and Inspection	18
AMT 1145	AC Electrical Circuits	27
AMT 1155	Solid State Circuits	30
AMT 4115	Aircraft Generators	66
AMT 4125	Aircraft Motors	42
AMT 4135	Aircraft Wiring Practice	42

### AIRFRAME MECHANIC

1200 HOURS

	Completion of the General Aviation curriculum	600
AMT 4005	Airframe Structures, Aerodynamics, and Rigging	69
AMT 4015	Aircraft Welding	30
AMT 4025	Aircraft Finishes and Fabric Covering	51
AMT 4035	Sheet Metal Structures	108
AMT 4045	Bonded Structures, Laminates, and Plastics	57
AMT 4055	Hydraulics and Pneumatics	78
AMT 4065	Landing Gear Systems	36
AMT 4075	Aircraft Atmosphere and Climate Control Systems	36
AMT 4085	Fuel, Ice and Rain Control, Fire Detection, Protection, and Extinguishing Systems	36
AMT 4095	Instruments, Pitot Static, Position/Warning and Communication/Navigation Systems	36
AMT 4105	Aircraft Inspections	63

### AEROSPACE TECHNICIAN

1950 HOURS

	Completion of the General Aviation curriculum	600
	Completion of the Airframe Mechanic curriculum	600
AMT 3005	Fundamentals of Reciprocating Engines	48
AMT 3015	Reciprocating Induction, Exhaust, Cooling, Lubrication & Starting Systems	48
AMT 3025	Reciprocating Fuels and Metering	36
AMT 3035	Reciprocating Ignition Systems	42
AMT 3045	Reciprocating Engine Removal, Overhaul and Installation	90
AMT 3055	Reciprocating Engine Inspection, Repair, Alteration & Installation	42
AMT 3065	Basic Propeller Systems	30
AMT 3075	Complex Propeller Systems	30
AMT 3085	Powerplant Electrical Systems	54
AMT 3095	Powerplant Wiring Procedures	24
AMT 3105	Fundamentals of Turbine Engines	54
AMT 3115	Powerplant Instrumentation and Fire Protection	24
AMT 3125	Turbine Intake, Exhaust, Cooling, Lubrication & Starting Systems	30
AMT 3135	Turbine Fuels and Metering	30
AMT 3145	Turbine Ignition Systems	18
AMT 3155	Turbine Engine Removal, Overhaul & Installation	90
AMT 3165	Turbine Engine Inspection, Repair, Alteration & Installation	60

# CHANGING LIVES

ONE CAREER AT A TIME



## ASSESSMENT

Adult: CR101 and COPSystem  
High School: PLAN and COPSystem  
Cost: CR101/\$5 & CCC/\$5

## ENROLLMENT OPTIONS

Adult and high school students  
Full-time: 8:00 to 3:00  
Part-time: 8:00 to 11:00  
Part-time: 12:00 to 3:00

## TUITION RATES

In district: \$2.10 per hour  
Out of district: \$4.20 per hour

## PROGRAM ACCREDITATIONS

Federal Aviation Administration  
Oklahoma State Board of Education  
Oklahoma Board of Career and  
Technology Education

## CONTACT INFORMATION:

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## APPRENTICESHIP

Eligible students may qualify to participate in an apprenticeship program with the **A-TEAM**, Civilian Aircraft Maintenance, on Altus Air Force Base. Acceptance into the apprenticeship program is based on grades, attendance, and ability. Final acceptance into the program will be dependent upon the ability to obtain security clearance, passing a required drug screening and government mandated physical. During the apprenticeship, students obtain work-place experience and earn approximately \$13.00 per hour.

## ATTENDANCE

The FAA, Federal Aviation Administration, mandates the Aviation and Aerospace Program's attendance policy. **All** time missed from class **must** be made up hour for hour. **There are no exceptions!** Example: If a student misses a half-day, 3 hours, of class, he/she must make arrangements with the instructor to stay after class to make up three hours of seat time.

## COLLEGE CREDIT

Students can receive college credit hours towards an Associate of Applied Science in Aviation through Prior Learning Assessment (PLA) and completion of 12 hours at [Western Oklahoma State College](#).

Upon completion of the SWTC aerospace maintenance technology program, students who choose to further their education will need additional college hours to complete an Associate of Applied Science degree.

## FINANCIAL AID

To qualify for financial aid, students will need to complete a Free Application for Federal Student Aid, FAFSA, form and enroll in a career major that is at least 600 hours. Application forms may be obtained from the financial aid coordinator, Monica Cox. Please have documentation of high school graduation or GED completion.

Grants	PELL OTAG
Scholarships	SWTC Foundation Scholarship ODCTE Otha Grimes Scholarship ODCTE McCrabb Scholarship P.E.O. Program for Continuing Education OAMCTE Scholarship for Minority Students  Lee Office Scholarship Breakfast Club Scholarship Oklahoma Business and Professional Women's Foundations Scholarship Tribal Scholarships OHLAP
Other Funding Sources	WIA Demand Labor Force Careers-OK Employment Security Commission Office WIA-Youth Program Department of Human Services-TANF Department of Rehabilitative Services Veteran's Benefits Oklahoma Rural Organization-OK Employment Security Air Force Aid Society