

AVIATION STRUCTURES MECHANIC



\$23.27 /hour Mean Wage

Programs in FLORIDA

George T Baker Aviation Technical College

Eastern Florida State College

Tom P Haney Technical Center

Traviss Technical College

Aviation Institute of Maintenance-Orlando

Lorenzo Walker Technical College

Polk State College

National Aviation Academy
of Tampa Bay

Embry-Riddle Aeronautical
University

Lively Technical Center

Florida State College at Jacksonville

Broward College

George Stone Technical Center



Aviation Structures Mechanics:

- Utilize precision tools to perform structural repairs by manufacturing and installing new parts
- Read and follow technical data, blueprints, and engineering drawings
- Perform modifications to and structural repair of aircraft panels and structural components

Contact Steve Kane at 321-698-4003 or
stevekane@spacetec.org for more information



DESCRIPTION

Aviation Structures (Sheet Metal) Mechanics maintain aircraft structures by initially performing visual inspections for corrosion, damage to aircraft surfaces and components, dings, dents, loose or missing rivets and recording findings on approved documentation. They utilize precision tools to perform structural repairs by manufacturing and installing new parts; reinforcing, patching, and replacing defective parts; performing modifications to and structural repair of aircraft panels and structural components to exacting standards in accordance with provided technical data and conducting final inspections when all work is complete. They utilize mechanical and hand blending techniques on major components using high speed grinders, sanding blocks, DA sanders, and similar tools.

Aviation Structures (Sheet Metal) Mechanics prepare aircraft, panel, and part surfaces for coating/painting by taping windows, landing gear, plastic and fiberglass surfaces to protect from chemicals; acid etching and washing, priming, and applying epoxy and paint. They also provide maintenance support in the removal of panels and skins and other aircraft components in preparation for application of surface coatings.

Aviation Structures (Sheet Metal) Mechanics need to be proficient in corrosion detection, repair and mitigation on aircraft panels and structural components. They must have experience in inspecting and evaluating structural damage to aircraft sheet metal systems and preparing composite surfaces using state of the art materials, methods, and procedures. Aviation Structures (Sheet Metal) Mechanics are knowledgeable with the use of common tools such as hammers, punches, wrenches, sockets, hand sanders, high speed grinders and sanders, protractors, calipers, height, depth, dial gauges and common pneumatic tools such as pneumatic drill motors, rivet guns and die grinders. They must demonstrate the ability to read and follow technical data, blueprints, engineering drawings, standard operating procedures, and manufacturing specifications used in the maintenance process.

Aviation Structures (Sheet Metal) Mechanics are also able to utilize all requisite manufacturers' manuals and accurately process all pertinent required paperwork, log entries, company work orders, & parts requests.

Work may require travel on short notice at any time of the day or night to accommodate repairs to aircraft in remote locations.

EDUCATION AND EXPERIENCE REQUIREMENTS

High school diploma or equivalent plus 2 years-experience (4,000 hrs) on heavy (transport) aircraft as a structures/sheet metal mechanic is preferred. FAA Airframe and Powerplant license is preferred but not required. Military aircraft experience is also desirable.

PHYSICAL REQUIREMENTS

Work requires standing, stooping, bending, and reaching. Frequent handling, lifting, and carrying objects that weigh 40-50 lbs. Must have the ability to utilize Ladders, lifts, and scaffolding

WORKING CONDITIONS

Work is performed in closed-in areas that are usually noisy and dirty, and where there is a constant danger to the skin and eyes from flying metal chips and abrasive particles; skin irritation from contact with coolants, lubricants, and abrasive compounds; danger to fingers, hands, and other parts of the body from cutting tools, grinding wheels, rotating pieces, and moving parts of machines.

Pre-employment drug screening is typically required. Starting pay is normally \$25-\$45/hr. based on experience. Relocation may be required.

