

A **CDM**CareerZone Occupational Brief for: **Aircraft Structure Assemblers, Precision**

Job Description

Assemble tail, wing, fuselage, or other structural section of aircraft, space vehicles, and missiles from parts, subassemblies, and components and install functional units, parts, or equipment, such as landing gear, control surfaces, doors, and floorboards.

Interests

Crafts - High Scorers on the Crafts scale usually:

- prefer to work with tools and objects rather than with people and words
- like to build things
- want to see practical results from their work
- enjoy mechanical activities
- like work that requires physical strength

Typical jobs: auto technician, cook, carpenter, truck driver, farmer, electrician, aircraft mechanic

Tasks

1. Aligns structural assemblies.
2. Bolts, screws, or rivets accessories to fasten, support, or hang components and subassemblies.
3. Cuts, trims, and files parts, and verifies fitting tolerances to prepare for installation.
4. Drills holes in structure and subassemblies, and attaches brackets, hinges, or clips to secure installation or to fasten subassemblies.
5. Inspects and tests installed units, parts, and equipment for fit, performance, and compliance with standards, using measuring instruments and test equipment.
6. Installs units, parts, equipment, and components in structural assembly, according to blueprints and specifications, using hand tools and power tools.
7. Locates and marks reference points and holes for installation of parts and components, using jigs, templates, and measuring instruments.
8. Positions and aligns subassemblies in jigs or fixtures, using measuring instruments, following blueprint lines and index points.

Skills

Installation - Installing equipment, machines, wiring, or programs to meet specifications.

Equipment Selection - Determining the kind of tools and equipment needed to do a job.

Mathematics - Using mathematics to solve problems.

Quality Control Analysis - Conducting tests and inspections of products, services, or processes to evaluate quality or performance.

Troubleshooting - Determining causes of operating errors and deciding what to do about it.

Reading Comprehension - Understanding written sentences and paragraphs in work related documents.

Active Listening - Giving full attention to what other people are saying, taking time to understand the points being made, asking questions as appropriate, and not interrupting at inappropriate times.

Equipment Maintenance - Performing routine maintenance on equipment and determining when and what kind of maintenance is needed.

Knowledge

Mechanical - Knowledge of machines and tools, including their designs, uses, repair, and maintenance.

Engineering and Technology - Knowledge of the practical application of engineering science and technology. This includes applying principles, techniques, procedures, and equipment to the design and production of various goods and services.

Production and Processing - Knowledge of raw materials, production processes, quality control, costs, and other techniques for maximizing the effective manufacture and distribution of goods.

Building and Construction - Knowledge of materials, methods, and the tools involved in the construction or repair of houses, buildings, or other structures such as highways and roads.

Design - Knowledge of design techniques, tools, and principles involved in production of precision technical plans, blueprints, drawings, and models.

Education / Training

New assemblers are normally entry-level employees.

A high school diploma is preferred for most positions.

Applicants need specialized training for some assembly jobs.

Other positions require only on-the-job training, sometimes including employer-sponsored classroom instruction in the broad range of required assembly duties.

School Programs

Airframe Mechanics and Aircraft Maintenance Technology/Technician. - A program that prepares individuals to apply technical knowledge and skills to repair, service, and maintain all aircraft components other than engines, propellers, avionics, and instruments. Includes instruction in layout and fabrication of sheet metal, fabric, wood, and other materials into structural members, parts, and fittings, and replacement of damaged or worn parts such as control cables and hydraulic units.

Wages

No wage data is available for this occupation

Job Outlook

No projection data is available for this occupation

Similar Jobs

Aircraft Body and Bonded Structure Repairers - Repair body or structure of aircraft according to specifications.

Mechanical Door Repairers - Install, service, or repair opening and closing mechanisms of automatic doors and hydraulic door closers. Includes garage door mechanics.

Aircraft Systems Assemblers, Precision - Lay out, assemble, install, and test aircraft systems, such as armament, environmental control, plumbing and hydraulic.

Aircraft Rigging Assemblers - Fabricate and assemble aircraft tubing or cable components or assemblies.

Welder-Fitters - Lay out, fit, and fabricate metal components to assemble structural forms, such as machinery frames, bridge parts, and pressure vessels, using knowledge of welding techniques, metallurgy, and engineering requirements. Includes experimental welders who analyze engineering drawings and specifications to plan welding operations where procedural information is unavailable.