Assemblers and Fabricators

SOC: 51-2011 • Career Profile Report

■ Key Facts

\$43,570Median Salary

11,200 Employment -1.0% Growth Rate

■ Requirements & Salary Range

Education: High school diploma

■ Automation Risk Assessment

Medium Risk - 38.0% probability of being automated in the next 10-20 years.

This job has some routine elements but still requires human judgment and interaction.

■■ Work-Life Balance

6.5/10 - Good work-life balance

■ Personality Fit (RIASEC)

Higher scores indicate better personality fit for this career type.

Realistic	8.4/10	Investigative	5.0/10	
Artistic	3.8/10	Social	4.6/10	
Enterprising	4.0/10	Conventional	8.0/10	

■ Top Skills Required

Color vision, Dexterity, Mechanical skills, Physical stamina, Physical strength, Technical skills

√ Strengths

- High Demand
- Flexible Work
- Continuous Learning

■ Challenges

- Burnout Risk
- Rapid Technological Change

■ What They Do

Assemblers and Fabricators typically perform the following tasks: • Assemble parts, fittings, or subassemblies on aircraft, using layout tools, hand tools, power tools, or fasteners, such as bolts, screws, rivets, or clamps. • Read blueprints, illustrations, or specifications to determine layouts, sequences of operations, or identities or relationships of parts. • Attach brackets, hinges, or clips to secure or support components or subassemblies, using bolts, screws, rivets, chemical bonding, or welding. • Inspect or test installed units, parts, systems, or assemblies for fit, alignment, performance, defects, or compliance with standards, using measuring instruments or test equipment. • Adjust, repair, rework, or replace parts or assemblies to ensure proper operation. • Cut, trim, file, bend, or smooth parts to ensure proper fit and clearance. • Fabricate parts needed for assembly or installation, using shop machinery or equipment. • Layout and mark reference points and locations for installation of parts or components, using jigs, templates, or measuring and marking instruments. • Clean, oil, or coat system components, as necessary, before assembly or attachment. • Assemble prefabricated parts to form subassemblies, • Set, align, adjust, or synchronize aircraft armament or rigging or control system components to established tolerances or requirements, using sighting devices and hand tools. • Join structural assemblies, such as wings, tails, or fuselage. • Position and align subassemblies in jigs or fixtures, using measuring instruments and following blueprint lines and index points. • Assemble prototypes or integrated-technology demonstrators of new or emerging environmental technologies for aircraft. • Manually install structural assemblies or signal crane operators to position assemblies for joining. • Align, fit, assemble, connect, or install system components, using jigs, fixtures, measuring instruments, hand tools, or power tools. • Set up or operate machines or systems to crimp, cut, bend, form, swage, flare, bead, burr, or straighten tubing, according to specifications. Place and connect control cables to electronically controlled units, using hand tools, ring locks, cotter keys, threaded connectors, turnbuckles, or related devices. • Install mechanical linkages and actuators, using tensiometers to verify tension of cables. • Clean aircraft structures, parts, or components, using aqueous, semi-aqueous, aliphatic hydrocarbon, or organic solvent cleaning products or techniques to reduce carbon or other harmful emissions.

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