



# ACCELERATED AVIATION MANUFACTURING PROGRAMS





## AEROSPACE QUALITY CONTROL

# AEROSPACE QUALITY CONTROL

- Inspect, test, or measure materials, products, installations, or work for conformance to specifications
- Use measuring instruments such as rulers, calipers, gauges, or micrometers to verify conformance to specifications
- Write test or inspection reports describing results, recommendations, or needed avrepairs



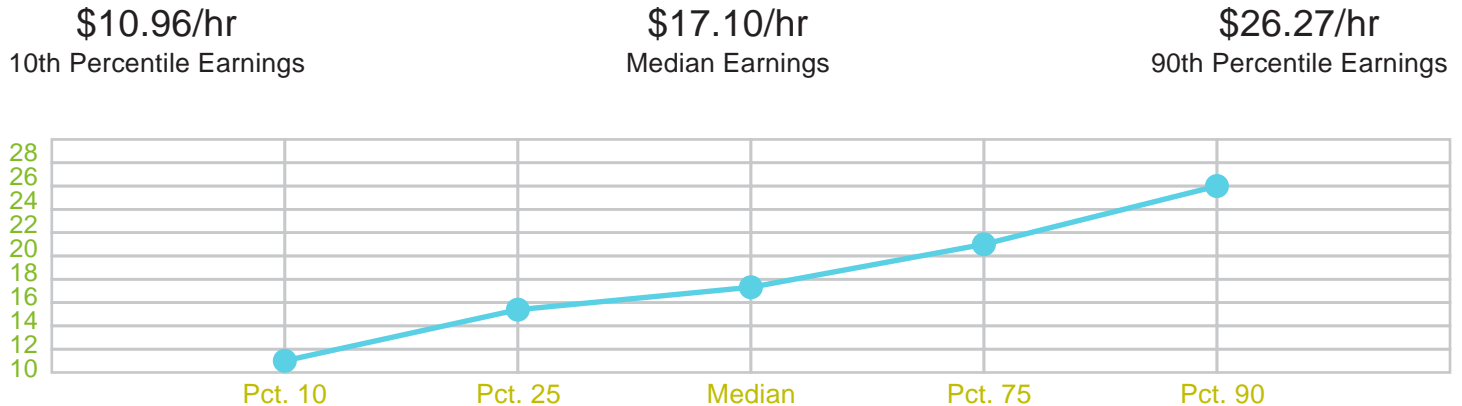


A young man with brown hair, wearing blue safety glasses and a dark brown t-shirt, is focused on his work. He is leaning over a blue machine, which has a large silver metal block mounted on it. His right hand is resting on the blue base of the machine, near a red label that reads "WILTON", "Pesağı 6.40007", "VERBLOK MACHINE VISE", and "Model 1275N". A black watch with a silver metal band is visible on his left wrist. The background is a blurred industrial setting with various mechanical parts and equipment.

## CNC OPERATOR

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- Machine parts from various materials to precise specifications outlined in blueprints
- Basic program, setup and operation of Computer Numerical Control (CNC) machines to fabricate precision parts
- Inspect and measure parts using precision instruments to maintain quality control



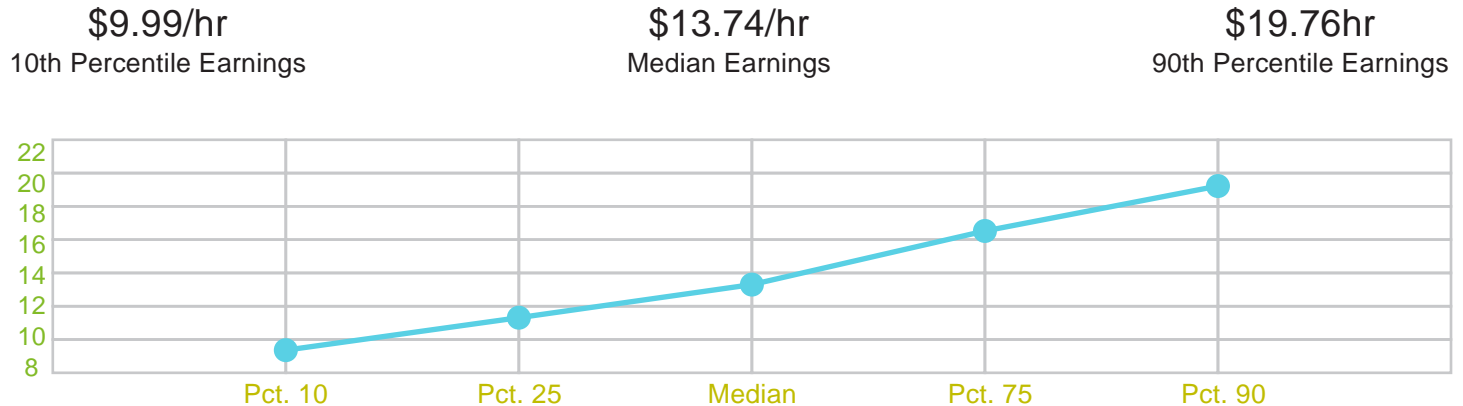


A close-up, angled view of several layers of composite material. The layers are stacked and slightly offset, showing a variety of textures. Some layers have a fine, woven mesh pattern, while others have a more pronounced, ribbed or corrugated structure. The colors range from light beige to dark brown, suggesting different materials or treatments. The lighting is dramatic, with strong highlights and deep shadows, emphasizing the three-dimensional nature of the layers.

## COMPOSITE FABRICATION

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- Interpret blueprints and follow process planning papers to fabricate composite components thru hand lay-up, bonding, vacuum bagging and resin transfer molding
- Join composite structures using adhesive bonding and mechanical fasteners





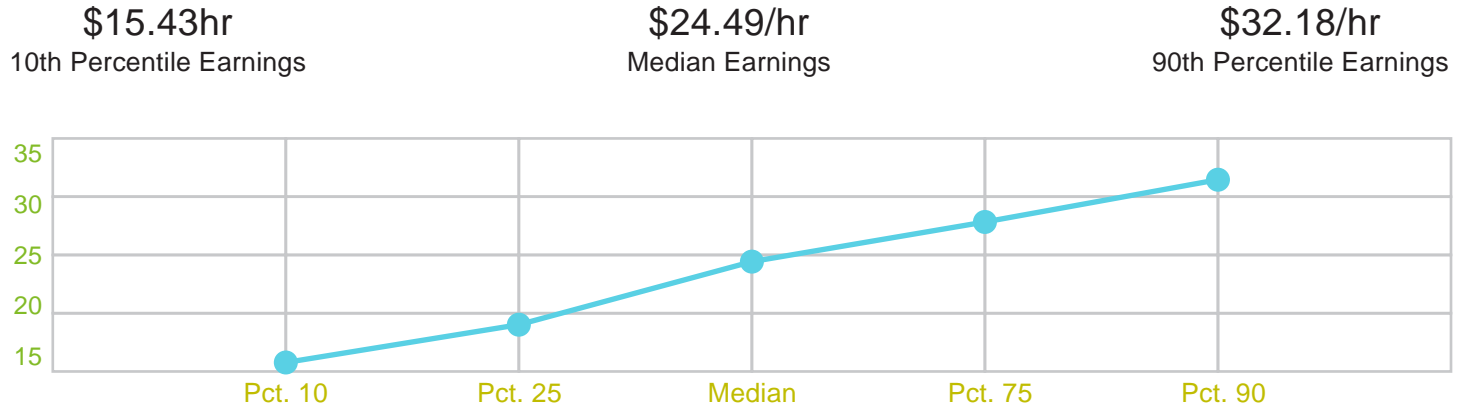


## ASSEMBLY MECHANIC



# ASSEMBLY MECHANIC

- Assemble and install parts of airplanes using rivets and fasteners
- Read and interpret blueprints to determine material requirements or assembly instructions
- Use a variety of precision-measuring instruments, hand tools & power tools



A close-up photograph of a young man with light skin and blue eyes, wearing clear safety glasses and a blue and white plaid shirt. He is looking down with a focused expression at a task in front of him. The background is blurred, showing a workshop or factory setting. A teal banner with white text is overlaid on the lower left portion of the image.

## AEROSPACE TOOLING & ELECTRICAL ASSEMBLY

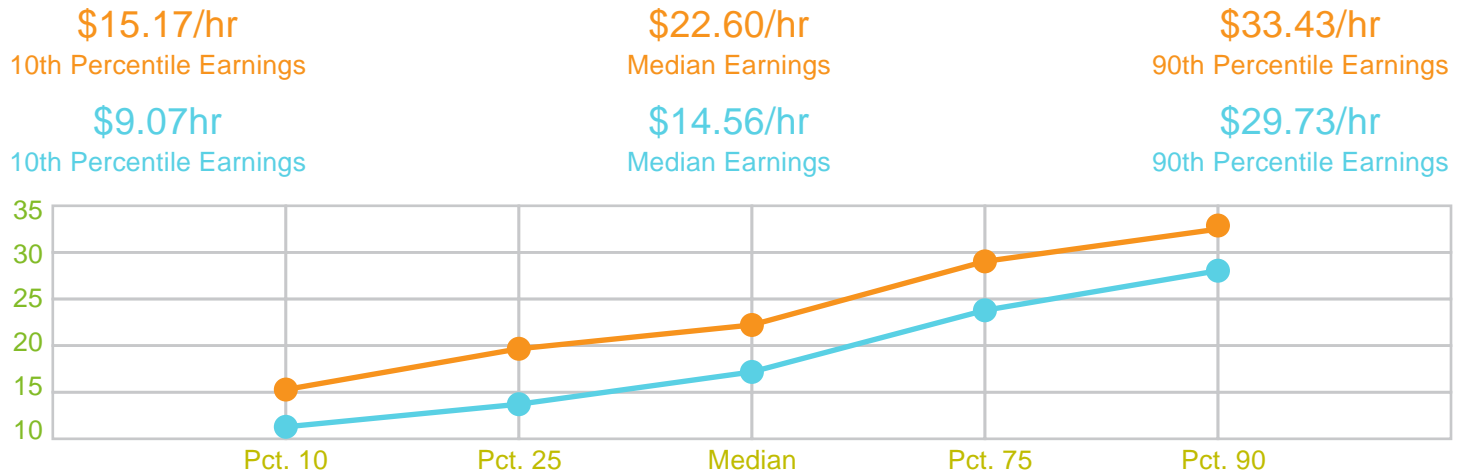
# AEROSPACE TOOLING & ELECTRICAL ASSEMBLY

- Study blueprints, sketches, models, or specifications to plan sequences of operations for fabricating tools, dies, or assemblies
- Fit and assemble parts to make, repair, or modify dies, jigs, gauges, and tools, using machine tools and hand tools
- Use measuring instruments such as calipers, gauge blocks, micrometers, or dial indicators to verify conformance to specifications

- Assemble and install electrical wiring and components in aircraft, working from engineering drawings
- Perform various soldering and de-soldering operations
- Use a variety of precision-measuring instruments, hand and power tools

● Aerospace Tooling

● Electrical Assembly





# GIVE YOUR CAREER LIFT

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*All wage data provided by EMSI (Economic Modeling Specialists, Inc.)*

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