



12-Weeks to a Career



Washington Aerospace
Training & Research Center





Washington Aerospace
Training & Research Center

3008
C-71

Aerospace Manufacturing Core & Assembly Mechanic Certificate of Completion

The Washington Aerospace Training and Research (WATR) Center is managed by Edmonds Community College through an operating agreement with the Aerospace Futures Alliance (AFA). This program was developed to provide short term high demand training to support the aerospace industry in Washington State.

Based on the success of the WATR program, the Department of Labor provided a grant for four states to replicate the training model and the National Aviation Consortium (NAC) was formed.

One of the benefits of the grant allowed the WATR Center to hire Retention Specialists. The Retention Specialist supports our students by providing job search coaching and interview skills. In addition, WATR has provided National Career Readiness Certification (NCRC) to our programs at no cost to our students and graduates.

The primary objective of the WATR Center program is to provide training that enables students to qualify for high demand, sustainable wage jobs to support their families and enrich the economy of our community and state.



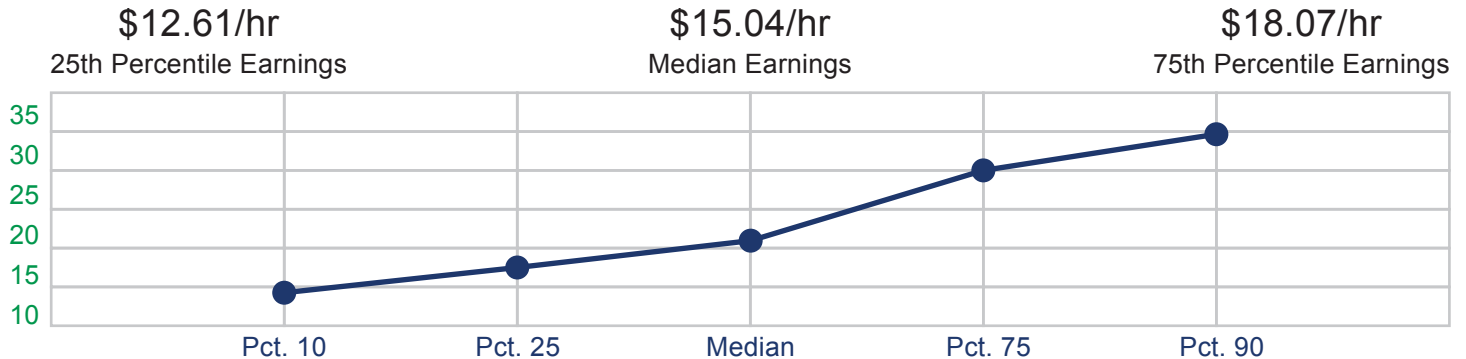


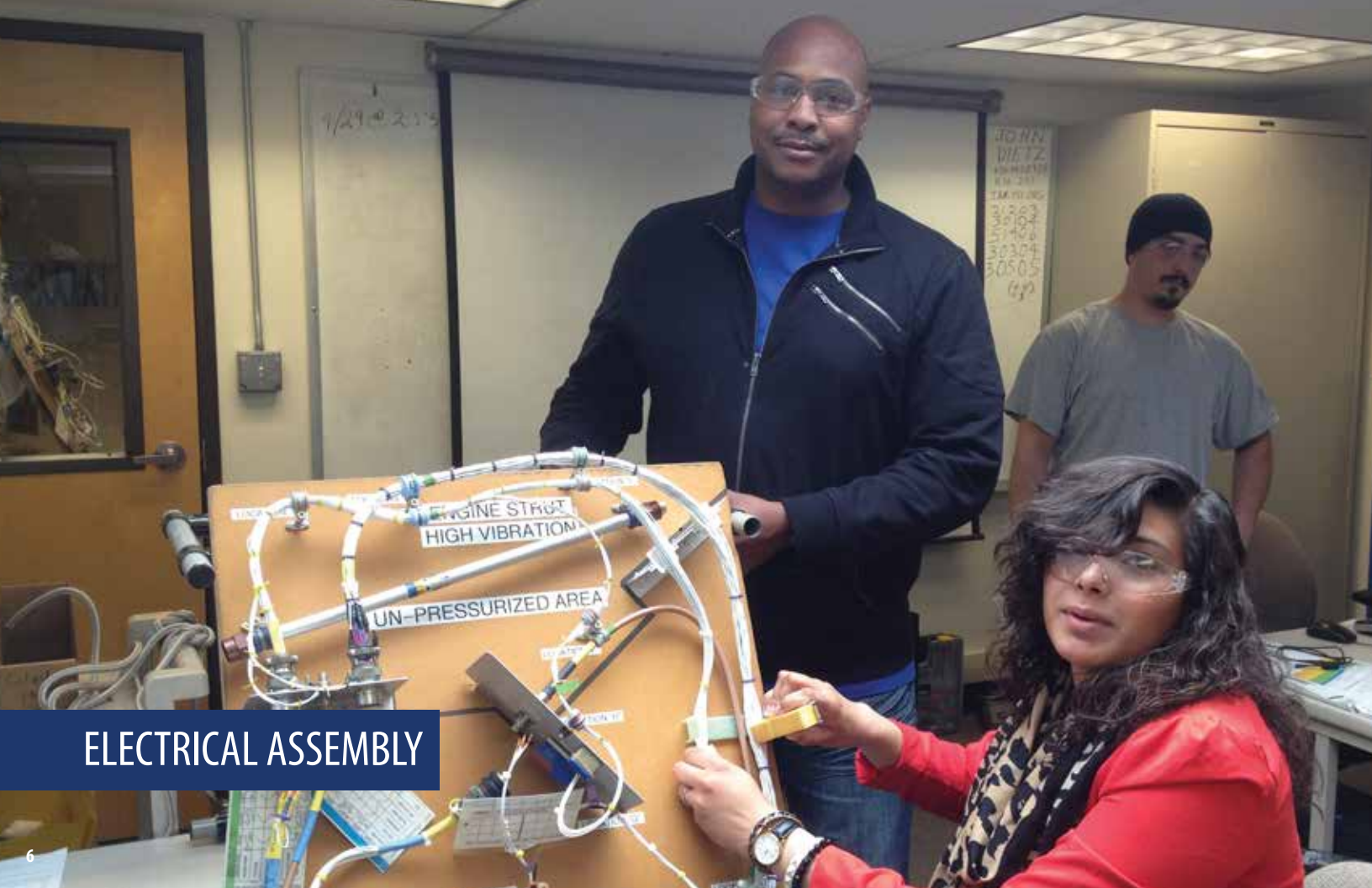
ASSEMBLY MECHANIC

Aerospace Manufacturing Core & Assembly Mechanic Certificate of Completion

- Aircraft Familiarization
- Manufacturing Paperwork
- Engineering Processes
- Hand & Measuring Tools
- Blueprints & Picture Sheets
- Introduction to Composites
- Power Island Equipment
- Basic Drilling & Riveting
- Intro to Torquing, Lockwiring, Nut Plates & Squeeze
- Countersinking and Flush Riveting
- 90 Degree Drilling, Reaming & Permanent Fasteners
- Drilling Titanium & Composite Materials
- Sealant Applicant Processes – Mechanical
- Electrical Bond & Ground
- Fiber Reinforced Composites – Manufacturing

Sample of Reported Job Titles: Sheet Metal Assembler and Riveter (SMAR), Structures Technician, Helicopter Mechanic, Aircraft Line Assembler, Assembly Riveter, Helicopter Technician, Line Assembler, Structures Mechanic, Wing Structures Assembler, Fuel Cell Sealer, Assembler Sub Assembly



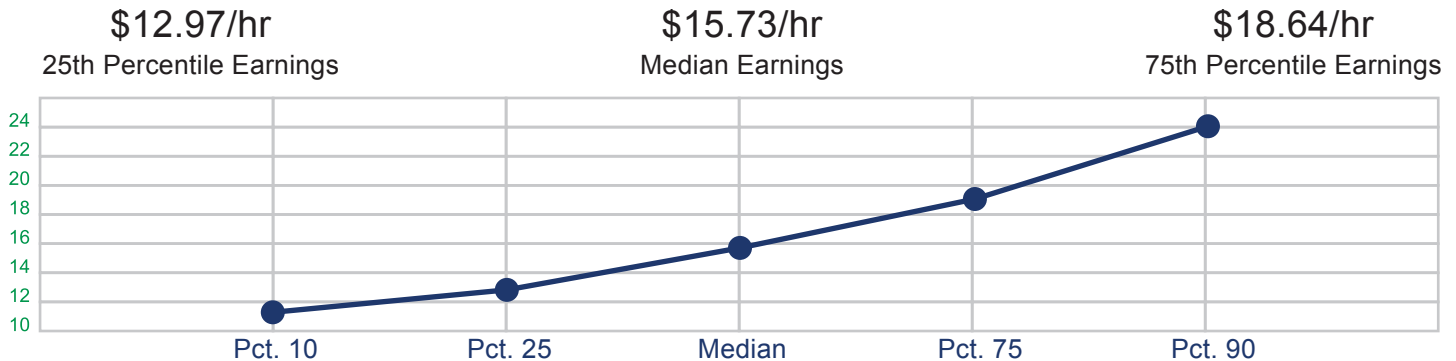


ELECTRICAL ASSEMBLY

Aerospace Manufacturing Core & Electrical Assembly Mechanic Certificate of Completion

- Aircraft Familiarization
- Blueprints and Picture Sheets
- Bonding and Grounding
- Engineering Processes
- Hand and Measuring Tools
- Introduction to Composites
- Manufacturing Documentation
- Sealing and Safety
- Basic Drilling & Riveting
- NCRC
- Electrical Cabling
- Electrical Hand and Power Tools
- Wire Bundle Basics
- Wire Installation Drawings

Sample of Reported Job Titles: Assembler, Assembly Worker, Production Worker, Electronic Assembler, Factory Assembler, Factory Worker, Armature Assembler, Breaker Units Assembler, Final Motor Assembler, Gear Assembler, Wire Shop, Wire Bundle Installer



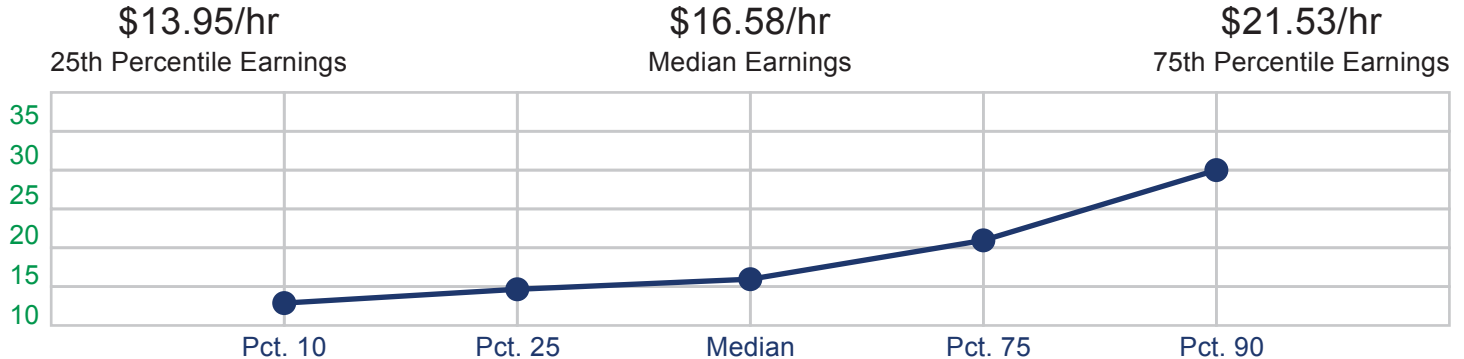


TOOLING MECHANIC

Aerospace Manufacturing Core & Aerospace Tooling Mechanic Certificate of Completion

- Aircraft Familiarization
- Manufacturing Paperwork
- Engineering Processes
- Hand & Measuring Tools
- Blueprints & Picture Sheets
- Introduction to Composites
- Sealing and Safety
- Basic Drilling & Riveting
- Intro to Torquing, Lockwiring, Nut Plates & Squeeze
- NCRC
- Countersinking and Flush Riveting
- Floor Mounted Power Tools
- Hand Tools
- General Drilling and Training
- Manufacturing Teams
- Precision Instruments
- Tap and Die

Sample of Reported Job Titles: Aircraft Tool Maker, Carbide Tool Die Maker, Die Maker, Jig and Fixture Builder, Jig and Fixture Repairer, Tool Repairer, Tool and Die Machinist, Tool and Die Maker, Toolmaker, Trim Die Maker



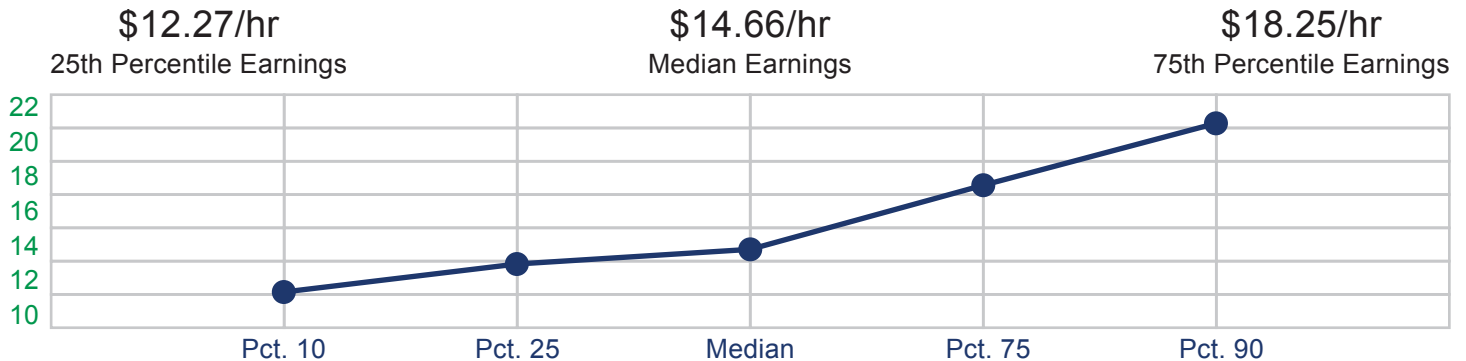


MANUFACTURING COMPOSITES

Aerospace Manufacturing Core & Aerospace Manufacturing Composites Certificate of Completion

- Aircraft Familiarization
- Manufacturing Paperwork
- Engineering Processes
- Hand & Measuring Tools
- Blueprints & Picture Sheets
- Introduction to Composites
- Power Island Equipment
- Manufacture's Specifications
- Build Plans
- Non-destructive Testing
- Drilling & Reaming
- Fastener Installation
- NCRC
- Seal Application
- Damage Assessment
- Damage Repair
- Precision Instruments
- Wet layup, Hotbonder
- Autoclave

Sample of Reported Job Titles: Boat Builder, Boat Carpenter, Chopper Gun Operator, Fiberglass Finisher, Fiberglass Laminator, Fiberglasser, Gel-Coater, Hull Line Crew Member, Laminator, Roller



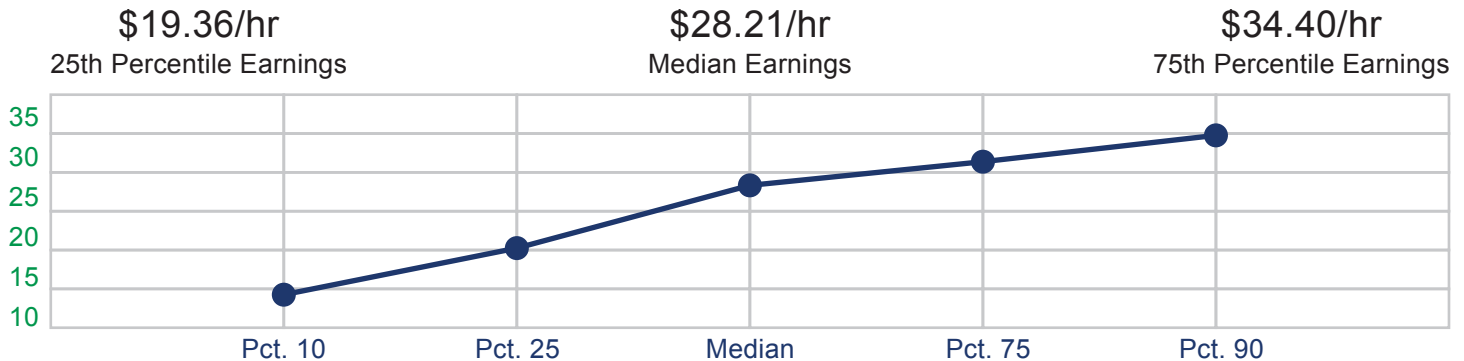


QUALITY ASSURANCE

Aerospace Manufacturing Core & Aerospace Quality Assurance Certificate of Completion

- Aircraft Familiarization
- Blueprints and Picture Sheets
- Bonding and Grounding
- Engineering Processes
- Hand and Measuring Tools
- Introduction to Composites
- Manufacturing Documentation
- Sealing and Safety
- Drilling
- Document and Specification Standards
- Fastener Installation
- GD & T
- Introduction to Conflict Resolution
- NCRC
- Precision Measurement
- Quality Assurance, Control and Inspection
- Quality Team Dynamics
- Statistical Process Control
- Torqueing
- Wire Bundle Installation

Sample of Reported Job Titles: Aircraft Inspector, Aircraft Quality Control Inspector, Airworthiness Safety Inspector, Aviation Safety Inspector, Avionics Safety Inspector, Technical Inspector, Aircraft Quality Assurance Inspector, Assembly Inspector, Aviation Maintenance Inspector



Student Testimonials?

Meet the Team?

Empowering, Informing, and Connecting our College Community



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

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