

Only 12 weeks to a career!



More than 1,950 graduates now working
in Aerospace and Manufacturing

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EDMONDS COMMUNITY COLLEGE
WASHINGTON AEROSPACE
TRAINING & RESEARCH CENTER

Aerospace Certificate of Completion Programs

Aerospace Manufacturing Core Certificate (9 Credits)

Prerequisite for SPECIALTY Certificates

- Aircraft Familiarization
- Electrical Bond and Ground
- Engineering Drawings and Picture Sheets
- Engineering Processes
- Hand & Power Tools
- Introduction to Composites
- Precision Measuring Tools
- Manufacturing Documentation
- Seal and Safety
- Capstone Assessment

SPECIALTY Certificates

Aerospace Manufacturing Assembly Mechanic Certificate (18.5 Credits)

- Basic Drilling, Reaming, and Countersinking
- Drilling Aluminum, Composite, and Hard Metals
- Electrical Bond and Ground
- Engineering Drawings
- Fluid Tight Fasteners/Microshaving
- Fuselage Skin Assembly
- Hand and Power Tools
- Installation/Removal of Fasteners
- Introduction to Torque, Lockwire, Nut Plates, and Rivet Squeeze
- Jigs and Templates
- Floor Mounted Power Equipment
- Protruding and Flush Head Riveting
- Quality Assurance and Inspection
- Seal Application Processes – Mechanical
- Wing Structure Project
- Capstone Assessment

Aerospace Electrical Assembly Mechanic Certificate (16 Credits)

- Basic Drilling and Riveting
- Electrical Hand and Power Tools
- Introduction to Fiber Optic Cable
- Inspection and Quality Assurance
- Torque, Seal, Bond, and Ground
- Routing, Clamping, Fabrication, and Termination
- Wire Installation Drawings
- Capstone Assessment

The Washington Aerospace Training and Research Center is industry focused and responsive to workforce needs. The center offers flexible training opportunities that meet the needs of the fast-paced aerospace industry.

Aerospace Manufacturing Quality Assurance Certificate (16.5 Credits)

- Basic Drilling, Riveting, & Countersinking
- Electrical Hand and Power Tools
- Engineering/Wiring Drawings
- Floor Mounted Power Equipment
- Introduction to Fiber Optic Cable
- Manufacturing Teams
- Precision Measuring Instruments
- QA Inspection: Electrical, Mechanical, Tooling, Seal, Receiving, and Final Product
- Routing, Clamping, Fabrication, and Termination
- Capstone Assessment

Aerospace Manufacturing Tooling Mechanic Certificate (17 Credits)

- Development of Build Plans
- Engineering Drawings
- Drilling, Reaming, Countersinking, and Counter Boring
- Hand and Power Tools
- Hardware Installation and Removal
- Manufacturing Teams
- Precision Layout and Drilling
- Precision Measuring Instruments
- Quality Assurance and Inspection
- Tap and Die
- Tooling Certificate Orientation
- Capstone Assessment

Aerospace Manufacturing Composite Certificate (19 Credits)

- Cure Procedures: Hot bonders, Ovens, and Autoclave
- Engineering Drawings and Lay-up Plans
- Damage Assessment and Repair
- Drilling, Reaming, and Fastener Installation
- Fiber Reinforce Composites Manufacturing
- Hand and Power Tools
- Introduction to Resins
- Lay-ups: Wet and Pre-impregnated
- Material Types and Characteristics
- Non-destructive Testing/Ultrasonic
- Precision Measurement Instruments
- Quality Assurance and Inspections
- Seal Application
- Shop, Material, and Chemical Safety
- Capstone Assessment



Learn more: washingtonaerospace.com

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