

Washington Aerospace Training & Research Center Aerospace Certificate of Completion Programs

The Washington Aerospace Training & 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. For scheduling purposes the core and its color coded advanced certificate must be taken in sequential order. Please register for the core certificate (prerequisite) that aligns with your chosen advance certificate program.



AEROSPACE MANUFACTURING CORE CERTIFICATE PREREQUISITE FOR SPECIALTY CERTIFICATES (9 CREDITS)

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

Cost: Core Certificate is \$2,400

Manufacturing
Assembly
Mechanic
Certificate

AEROSPACE MANUFACTURING ASSEMBLY MECHANIC CERTIFICATE (18.5 CREDITS)

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

Cost: Each Specialty Certificate is \$2,700

Register now! New classes start soon.

For more information, please call 425.640.1840 or visit us at www.washingtonaerospace.com

Washington Aerospace Training and Research Center: 3008 100th St SW Everett, WA 98204

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AEROSPACE ELECTRICAL ASSEMBLY MECHANIC CERTIFICATE (16 CREDITS)

Electrical Assembly Mechanic Certificate

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

AEROSPACE MANUFACTURING QUALITY ASSURANCE CERTIFICATE (16.5 CREDITS)

Quality Assurance Certificate

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

AEROSPACE MANUFACTURING TOOLING MECHANIC CERTIFICATE (17 CREDITS)

Tooling Certificate

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

AEROSPACE MANUFACTURING COMPOSITE CERTIFICATE (19 CREDITS)

Composite Certificate

- Cure procedures: Hot bonders, Ovens & Autoclave
- Engineering Drawings & Lay-up Plans
- Damage Assessment & Repair
- Drilling, Reaming & Fastener Installation
- Fiber Reinforced Composites Mfg.
- Hand & power tools
- Introduction to resins
- Lay-ups: wet & pre-impregnated
- Material Types & Characteristics
- Non-destructive testing/Ultrasonic
- Precision Measurement Instruments
- Quality Assurance & Inspections
- Seal Application
- Shop, Material, & chemical safety
- Capstone Assessment

Core + Specialty Program Certificate Cost: \$5,100

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