



SpaceTEC® Aerospace Manufacturing Competencies

Aerospace Manufacturing Essentials (covered in all)

- Manufacturing Print Reading/Drafting
- Geometric Dimensioning & Tolerancing
- Quality Control, Inspection, Measurement, & Test Equipment
- Safety in Manufacturing
- Process Control & Quality Assurance in Manufacturing
- Manufacturing Materials & Processes

Structures and Assembly Processes

- Assembly Fundamentals
- Electrical/Electronic Assembly
- Mechanical Assembly
- Structural Surface Preparation
- Surface Preparation & Coatings
- Instrumentation Attachments & Adhesive Bonding
- Composite Manufacturing

CNC & Manual Machining Processes

- Machining/Fabrication Process Fundamentals
- Computerized-Numeric-Control (CNC) Machining Operations
- CNC Programming
- Manual Milling/Lathe Operations

Welding & Cutting Processes

- Welding & Cutting Process Fundamentals
- Gas Metal Arc Welding (GMAW) & Flux Cored Arc Welding (FCAW)
- Gas Tungsten Arc Welding (GTAW) and Plasma Arc Welding (PAW)
- Orbital Tube Welding
- Cutting Processes