

Aviation Structures Technician Level 1 – The CertTEC® Aviation Structures Technician exam is in three parts and consists of a 70 question computer-based written exam, followed by an oral and practical evaluation of an individual’s technical knowledge and skills. The examination focuses on basic Aviation Structures fundamentals in the following topic/subtopic areas:

- Introduction to Aviation
 - Critical Thinking Skills
 - Human Factors In Aviation Management
 - Organizational Skills
 - Quality Management Systems
 - Terminology and Acronyms
- Shop Math
 - Application of Shop Math
- Personal and Environmental Safety
 - Accident-Incident Reporting
 - Clean as you go
 - FOD
 - Lifting Techniques
 - Lockout-Tagout
 - MSDS
 - OSHA Regulations
 - PPE
 - Safe Work habits
 - Tool and Hardware Inventory
 - Work Hazards
- Aircraft Materials and Fasteners
 - Composites Fabrication Process
 - Fasteners
 - Heat Treatment
 - Material Composition
 - Non-Metallic Materials
 - Sealing Materials
 - Sheet Metals
- Blueprints and Manuals
 - Blueprint Reading

- Engineering Documentation
 - Research
- Federal Aviation Regulations
 - ATA Codes
 - FAR
- Documentation
 - Component Specific
 - Routine vs Non-routine
 - Sign Off
 - Technical Writing
 - Work Progress-Turnover
- Precision Measuring Equipment
 - Calibration
 - Tools and Equipment
 - Torqueing Fasteners
- Rivet Installation and Removal
 - Countersinking
 - Deburring
 - Drilling
 - Layout
 - Reaming
 - Rivet Removal
- Fabrication
 - Fabrication Materials and Processes
 - Fabricate per Sample Part
 - Polishing
 - Tool and Equipment-Fabrication
- Assembly
 - Assembly Fixtures
 - Assembly Procedures
 - Fitment
 - Tools and Equipment-Assembly
- Repair
 - Corrective Action
 - Inspection-Damage Assessment

- Repair Procedures
- Tools and Equipment-Repair
- Visual Inspection