

Core Certified Aerospace Technician - The SpaceTEC® Certified Aerospace Technician Core Certification is recognized by the aerospace industry for entry-level employees. Aerospace technicians manufacture, assemble, service, test, operate, maintain, or repair systems associated with expendable and reusable launch vehicles, payloads, related laboratories, and ground support equipment. The SpaceTEC® Certified Aerospace Technician Core exam is a three-part exam consisting of a 70 question, computer-based written exam, followed by an oral and practical evaluation of an individual's technical knowledge and skills. The topics/subtopics follow:

- Introduction to Aerospace (10%)
 - Regulations and Controls
 - Clean Room, Contamination and FOD
 - Ethics
 - Quality Assurance and Quality Control
- Aerospace Safety (16%)
 - Toxic and Hazardous Substances
 - Personal Protection Equipment
 - Hazardous Materials
 - Emergency Plans and Fire Prevention
 - Platforms
 - Occupational Health and Environment
 - Walking Surfaces
- Applied Mechanics (20%)
 - Machine Shop Safety
 - Non-Cutting Hand Tools
 - Cutting Hand Tools
 - Drill Presses, Twist Drills, Drilling Speeds and Feeds, Drilling Holes
 - Basic Measurement
 - Basic Calculations (Metric to Standard, Ratios, Volume, Area, Dimensions)
 - Calipers
 - Hardware and Materials Identification
 - Blueprint Reading and Interpretation
 - Interpret Technical Drawings and Schematics

- Basic Electricity (14%)
 - Electric Safety
 - Metric Notation
 - Atomic Structure
 - Resistors
 - Switches
 - Schematic Reading
 - AC/DC Circuits
 - Theory
 - Laws
- Materials and Processes I and II (20%)
 - Metallurgy
 - Metallurgical Processes
 - Mechanical Behavior
 - Conventional Mechanical Testing
 - Corrosion
 - Corrosion Forms, Causes, Prevention
 - Corrosion Control
 - Non-Metallic Materials
 - Composite Materials
 - Structural Characteristics
 - Solid Core Structures, Molds, Moldless Wet Lay-up Techniques
 - Hollow Structures and Mold Making
 - Vacuum Bagging
- Tests and Measurements (20%)
 - Inspection Requirements and Planning
 - Accuracy, Precision and Tolerances
 - Mechanical Measuring Inspection
 - Mechanical Surface Plate Inspection
 - Electrical /Electronic Measurements
 - Electrical Pressure/Flow/Temperature Measurement
 - Force/Strain/Torque/Vibration Measurement
 - Non-Destructive Examination
 - Surface Flaw Inspection
 - Electromagnetic Techniques

- Radiographic Techniques