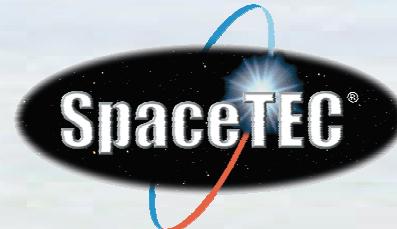


Knowledge and Skills Inventory



This is to acknowledge that on September 4, 2012

Your Name

completed the Knowledge and Skills Inventory for Aerospace

Core with the following scores in the listed topic areas :

Introduction to Aerospace

4.3

Aerospace Safety

5.0

Applied Mechanics

6.4

Basic Electricity

5.7

Materials and Processes I & II

7.2

Test and Measurements

5.8

Competencies within each Topic Area

Introduction to Aerospace

1. Regulations and Controls
2. Clean Room, Contamination and FOD
3. Ethics
4. Quality Assurance and Quality Control

Aerospace Safety

1. Toxic and Hazardous Substances
2. Personal Protection Equipment
3. Hazardous Materials
4. Emergency Plans and Fire Prevention
5. Platforms
6. Occupational Health and Environment
7. Walking Surfaces

Applied Mechanics

1. Machine Shop Safety
2. Non-Cutting Hand Tools
3. Cutting Hand Tools
4. Drill Presses, Twist Drills, Drilling Speeds and Feeds, Drilling Holes
5. Basic Measurement
6. Basic Calculations (Metric to Standard, Ratios, Volume, Area, Dimensions)
7. Micrometers
8. Calipers
9. Hardware and Materials Identification
10. Blueprint Reading and Interpretation
11. Interpret Technical Drawings and Schematics

Basic Electricity

1. Electric Safety
2. Metric Notation
3. Atomic Structure
4. Resistors
5. Switches
6. Schematic Reading
7. AC/DC Circuits
8. Theory
9. Laws

Materials and Processes I & II

1. Metallurgy
2. Metallurgical Processes
3. Mechanical Behavior
4. Conventional Mechanical Testing
5. Corrosion
6. Corrosion Forms, Causes, Prevention
7. Corrosion Control
8. Non-Metallic Materials
9. Composite Materials
10. Structural Characteristics
11. Solid Core Structures, Molds, Moldless Wet Lay-up Techniques
12. Hollow Structures and Mold Making
13. Vacuum Bagging

Tests and Measurements

1. Inspection Requirements and Planning
2. Accuracy, Precision and Tolerances
3. Mechanical Measuring Inspection
4. Mechanical Surface Plate Inspection
5. Electrical /Electronic Measurements
6. Electrical Pressure/Flow/Temperature Measurement
7. Force/Strain/Torque/Vibration Measurement
8. Non-Destructive Examination
9. Surface Flaw Inspection
10. Delamination Inspection
11. Electromagnetic Techniques
12. Radiographic Techniques

Topic area scores are in the range of 0-9.