

Skilled **M**anufacturers **I**nc.

Bailey Proctor

Option 2

160 hrs Paid

About SMI

Drawing from our extensive automotive expertise, SMI Aerospace was created in 2008 to support the aerospace industry in its quest to fly higher. Today, 50 employees are single-mindedly focused on aerospace engineering, project management and manufacturing excellence. By applying process control, product control and low-volume, high-mix production standards to a new market, SMI Aerospace is successfully—and cost-effectively—serving the private jet, commercial airline and defense industries with precise, made-in America components.



Customers

Honeywell

Honeywell
Aerospace

Products



Woodward



WOODWARD



My Role

- Document Control
- Shipping & Receiving
- Sorting/organization



| Part Number | | Operation Name/Number | Drawing Rev. Level | Drawing Rev. Date | Eff. | Required Personal Protective Equipment |
|--|-----|-----------------------|---|-------------------|---------------|--|
| 1316-100-01 | | 01/Component | 8 | 1/21/18 | PLK | Safety Glasses |
| REACTION PLAN: In a defect is found STOP IMMEDIATELY and notify your Quality Representative or Supervisor | | | | | | |
| Item # | Qty | Failure / Toler. | Work Elements | Classification | Visual Aid | |
| 1 | | | Scan part into production system and ensure previous operations have been completed. Notify current operator in correct, then select "pass" | | | |
| 2 | | | Place the tube into the tube rack. Ensure label is not damaged/obscured. | MS | | |
| 3 | | | Set the cut length to 8.00" ± .005" | 2.00P ± .005" | | |
| 4 | | | Cut one length for each piece required by reaction/transfer. | | | |
| 5 | | | Index: Deburr edges of tube radius on chamfer edge of 0.0021 inch and edge of the .016 to .016 of tubing, and thickness. Edges to be free of burrs. | | | |
| 6 | | | Deburr outside edge of tubes on deburring wheel as shown. | | | |
| 7 | | | Inspect: Inspect diameter with 4.51 dia. measuring bc. | | | |
| 8 | | | Flip part around and repeat steps 5-6 | | | |
| 9 | | | Inspect cut length on inline gage - GA-130-000-00-01 Operator Inspection instruction to ensure cut length is acceptable. | | | |
| 10 | | | Complete entire order, place tubes on 50 cart, and move to next track. | | | |
| 11 | | | Wash entire order of tubes. Blow off tubes with air hose and centrifuge 60. | | "No Material" | |
| 12 | | | Scan part and select "Complete" to finish operation. Place the magnet and magnet wire in "Operation Complete" bin. | | | |
| 13 | | | Move on to next operation. | | | |
| Production Standard Details | | | | | | |
| Inspect Date by Root Cause | | | | | | |
| Move to Next Operation → | | | | | | |

Supervisors

Dodd Russell- President

Gary Greenman- Director of Engineering

Ashley Bassat- Document Technician

Steve Alderman- Shipping Manager

Academic Skills

- Basic math
- Excel
- Word
- Communication
- supply & Demand
- punctuality
- self motivation

Technical Standards

Identify and use common hand tools

Identify and properly use fasteners

Estimate and measure the size of objects using SI and US units

Explain the role of quality control in manufacturing

Measure with precision tools and instruments

Explain the role of quality control in assembly and fabrication

Identify situations of supplying and outsourcing

Identify the order and methodology of the assembly process

Identify principles of the problem solving process

Translate word problems into mathematical statements

Recognize sustainability methods and materials - Recognize the impact of engineering & technology on the environment

Office and shop safety

Analyze solutions, identifying strengths and weaknesses

Develop details of a solution

Identify changes caused by the use of technology ranging from gradual to rapid and from subtle to obvious

Classify the use of technology involving weighing the trade-offs between the positive and the negative effects

Identify ethical considerations important in the development, selection, and use of technologies

List the cultural, social, economic, and political changes caused by the transfer of a technology from one society to another

Select technologies to conserve water, soil, and energy through such techniques as reusing, reducing and recycling

List trade-offs of developing technologies to reduce the use of resources - Identify technologies devised to reduce the negative consequences of other technologies

Discuss the implementation of technologies involving the weighing of trade-offs between predicted positive and negative effects on the environment