Manufacturing/Machinist Technology Advisory Committee

Special Meeting—Quality Assurance Skills Panel

January 11, 2013
Noon – 12:00 pm

Minutes

Present:  Timothy Bartol – The Boeing Company
          Cliff Bergeson – Shoreline Community College
          Charles Garnesley – American Society of Quality
          Sandy Gibbs – Provail
          Michelene Felker – Shoreline Community College
          Susan Hoyne – Shoreline Community College
          Steve Johnnic – Pacific Tool
          Brian Keever – Shoreline Community College
          Jeff Purdy – Shoreline Community College
          Keith Smith – Shoreline Community College
          Tom Stevenson – Royell Manufacturing
          Mike Stewart – Giddens Tool

Welcome – Michelene Felker

Introductions

Goals of the QA Program – Cliff Bergeson

Cliff discussed the overall goal of offering a Quality Assurance class at Shoreline Community College that would train a student to become an entry level inspector in a machine shop. Then he organized a discussion among participants to gather their input on what kind of skills and knowledge that should be taught in this class.

Discussion – A discussion was held by participants to talk about what kinds of skills and abilities should be emphasized in Shoreline’s Quality Assurance class. Below is a list of the points raised in this discussion that attendees felt that should be included in the curriculum for the Quality Assurance Class:

Knowledge
• GD&T
• Math – Basic through Trigonometry
• Fundamentals of Calibration
• De-burr requirements
• Outside Processes
  o Shot Peening
  o Plating
• Understanding the nature of defects
• Is familiar with Flight Safety Standards dealing with:
  o Accountability
  o Traceability
  o Legal documents
  o Certification paper work
    ▪ Heat treat
    ▪ Chemical processes
    ▪ Material properties
• Understands how to fill out Cause and Corrective Action reports
• Is familiar with AS9102 Standards and MIL-STD105

Ability
• Can use MS Office tools
• Can use a MRP system
  o Time keeping
  o Production schedules

Skills
• Using precision measuring tools
  o Micrometers
  o Dial Bore Gage
  o Gage Blocks
• Developing a Q/A Inspection plan
• Can correctly determine the needs of customer quality control plans
• Can perform a 1st Article Inspection

Soft Skills
• Problem solving
• Attendance
• Work place communication
• Teamwork
• Accountability
• Resume
Equipment

- CMM
- Hardness testers
- Eddy current testers
- Mag Testers

Wrap Up – Cliff Bergeson

Adjourn