

Manufacturers Alliance Seminar Getting to the True Root Cause

Practical experiences from practitioners on how to prevent the quick fix and get to the real fix.

Andrew Tool & Machining

Don Griwac, Quality & CI Director

Getting to the True Root Cause



Andrew Tool and Machining Company

- National Leader in High Precision Machining Processes
- Two Locations Plymouth and Maple Grove
- Mechanical Design
- Innovative Solutions
- Low Volume High Mix
- AS9100D Registered

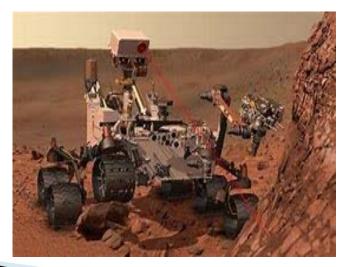


Andrew Tool and Machining Company

- CNC Turning
- CNC Milling (including 5 axis)
- Wire (001"to .012" diameter)
- Plunge EDM
- Surface Grinding
- Rotary Grinding
- Jig Grinding



Flight Parts



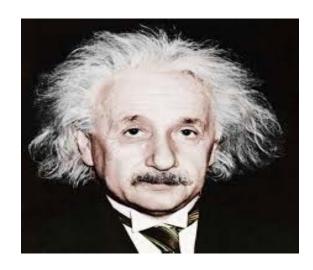


Getting to the True Root Cause





Einstein-information is more important than knowledge





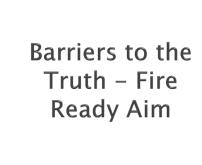
Roadblocks to the Truth





6 Roadblocks to the Truth

- Hero: Fire Ready Aim
- Name and Blame Culture
- Perspective
- Fear
- Denial
- Time







Ready-Aim-Fire

- Gather the facts
- Set your sights on an attainable target-define the problem
- Schiphol Airport-Brilliant Solution

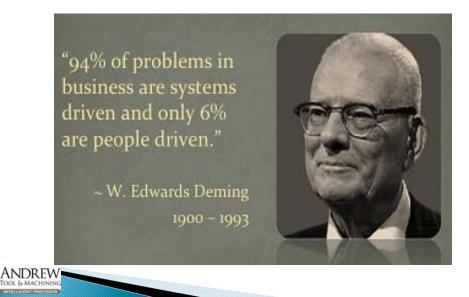




Bad Leaders Focus on Blame

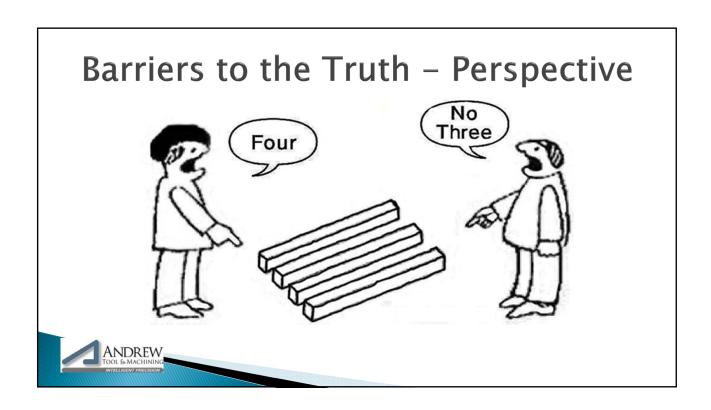


Name and Blame

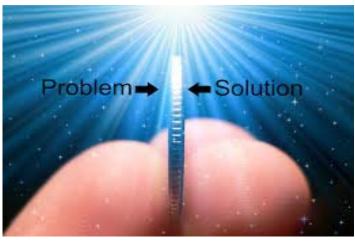


Barriers to the Truth - Name & Blame

- Starting Point
 - No one ever intends to do a bad job
 - No one ever intends a mistake
 - People want to do good work



Barriers to the Truth - Perspective





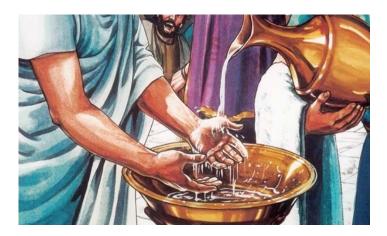
Barriers to Truth-Fear



\$1Million per day profit-lost if late

Barriers to the Truth - Fear

Pilate-knew the truth and washed his hands





Barriers to the Truth - Fear

Truth may have consequences



Barriers to the Truth - Fear

- Reputation
- Income loss
- Relationships
- Change



Barriers to the Truth - Denial

Who said cigarette kills?



I'm 48 and still feeling good.



Barriers to the Truth-Time

- Memories fade
- Evidence is lost
- Conditions change



6 Roadblocks to the Truth

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Conclusions

Focus on the process Listen to the people Don't give up!

