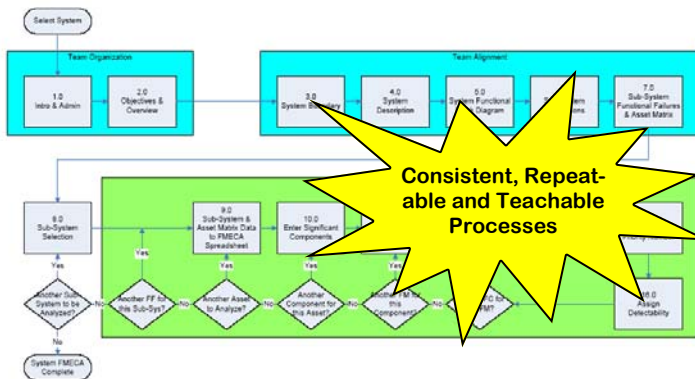




# ALIDADE F M E C A & P M O

Insight, advice and support to those accountable for people and equipment.

## Experienced people, delivering teachable processes, achieving great results...



Consistent, Repeatable and Teachable Processes

### Our People

- Our average professional has over 25 years of experience
- We have worked as craftsmen, supervisors and managers
- We know the value of cross functional teams, time spent away from primary duties and what's needed to keep teams on track
- Alidade employees & network associates rate working for Alidade consistently high; we love what we do, and how we do it

### Our FMECA & PMO Process

- No software necessary; however, we'll work with your software or recommend an appropriate package if you prefer
- We teach your workforce and staff members important maintenance and reliability concepts
- We teach the process, demonstrate the process, then provide coaching so the learning is engrained

### Our Recent Results

- Surface Mining Maintenance Plans for 240 Ton Haul Trucks
  - FMECA/PMO, 22 Team Days, 24 Systems, 1350 Failure Causes
  - Standardized PM Program across 5 mine sites
  - Maint Downtime reduced 13%, 100% PM completion
  - Planned Maint Hrs Reduced from 287/yr to 157/yr per Truck
- Aerospace Manufacturing Auto-Riveting System
  - Initial MTBF 2.8 Hrs, Manual Riveting Induced Quality Issues
  - Worked with Outsourced Maint Craftsmen; Mech & Elect
  - 654 Failure Causes; Provided Detailed Recommendations
  - MTBF increased >10x, Stable Operation, No Quality Issues

### Leveraging Experience

We discuss what the end result you're looking for and structure our support accordingly. You're the boss. Because of our highly experienced team, we are able to adjust our support to best meet your circumstances. Many of our competitors have good people, but they are not free to alter how they deliver support.

### Satisfied Customers

It's a fact that the best way to satisfy customers is to have satisfied employees. Our team members (employees and network of associates) fill out team member satisfaction surveys after each engagement. Their satisfaction survey results consistently rated us as 5 out of 5. With highly engaged team members we consistently exceed customer expectations.

Our people are satisfied because we allow our experienced and knowledgeable professionals to work with our clients to our client's best advantage. They are not confined to a one-size-fits-all delivery model. People who are passionate about maintenance and reliability want to implement effective and efficient solutions. Our model allows them to do so.

**Alidade FMECA:** The Alidade Failure Modes, Effects and Criticality Analysis (FMECA) process is very teachable. We unapologetically streamline the process, remove the jargon and focus on getting significant failure modes identified and prioritized quickly and efficiently.

**Alidade PMO:** When we understand the significant failure causes and their criticality we sort the list of failure causes by priority. Then we can select the appropriate planned tasks, establish a periodicity and evaluate if the task and periodicity add value. Value added tasks are developed.

**Alidade Task Development:** Task development allows us to train our workforce, plan and schedule resources and execute the tasks consistently. Engineered Maintenance Plans are living documents which can be adjusted and improved with operating knowledge and feedback.

*Providing insight, advice and support to those accountable for people and equipment.*



Tom Moriarty, PE, CMRP  
President  
Alidade MER, Inc.

Tom Moriarty, PE, CMRP is the President of Alidade MER, Inc.; a veteran owned small business (VOSB). Tom is a former Coast Guard naval engineer having retired at the rank of Lieutenant Commander. He was an enlisted machinery technician for nine years with hands-on experience in HVAC, hydraulics, diesel/gasoline engines, water/waste water, fuel systems and various other mechanical systems. He graduated from Officer Candidate School in 1988. Over his career he was a laborer/technician, supervisor, project & program manager; he worked in engineering, finance, personnel and operations. In 2003 Tom was selected as the Coast Guard’s Engineer of the Year—the award was based on his leadership in developing & deploying a comprehensive condition based maintenance program. Tom earned a Master of Business Administration (MBA) degree from Florida Institute of Technology, and a Bachelor of Science in Mechanical Engineering (BSME) from Western New England College. Other credentials include being a licensed Professional Engineer (PE) in Florida & Virginia, Certified Maintenance & Reliability Professional (CMRP), and Past Chair of ASME, Canaveral Section. Tom has worked in refining, power generation, pharmaceutical, chemical, mining, manufacturing and aerospace plants and in government and commercial facilities.

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*The Cost of Doing Nothing*

Forward looking managers understand the value of improving maintenance programs. Some hesitate and place too much emphasis on the short term costs of commissioning a project. Here’s some math for a typical FMECA/PMO project;

Typical Costs

8 Of Your Team Members x 40 hrs/wk x 4 wks @ ~\$55/hr = \$70,400  
 Alidade Facilitator x 4 wks @ \$7,500/wk = \$30,000 + \$4,800 expenses

Total Cost for a typical Alidade FMECA/PMO Project = \$110,000

Typical Benefits

Overall PMs Reduced by 30% (0.9 man-years for every 10 maint-man-yrs)  
 Unplanned Maintenance Reduced 20% (0.36 man-yrs per 10 maint-man-yrs)  
 Increase Production Availability; 1%-12% improvement  
 Reduce Overtime by 66% (\$25K/yr per 10 maint-man-yrs)  
 Assume 50 maint workers and \$5,000/hr downtime at 24/7 operations, and availability improvement (5%)  
 Total Benefits: Labor (\$472K) + Production (\$2,190K) = \$2,662,000/yr

Typical One Year Benefit—One Cost Ratio

\$2,662,000 : \$110,000 = **24 :1**

*What our clients have said...*

“Alidade helped us standardize our maintenance programs across five mine sites, resulting in 42.5% overall reduction in PM hours, our people liked working on the project. Alidade’s approach ensured the five maintenance managers and their crews were incorporated, and were comfortable with the final PM tasks.

*-Mark A. Gilbertson, Rio Tinto Energy Americas*

