



Global Leaders In Maintenance & Reliability

Energy Asset Management Services

Big Goals Deserve Big Results.

Make It Happen With Marshall Institute.

In today's current market, it is imperative that the Energy industry makes changes that promote eliminating waste in processes and reducing operating costs. Marshall Institute understands these needs and provides solutions to assist with bringing these costs under control.

We achieve this by ensuring your maintenance and turnaround execution processes are thorough, personnel are well trained in the processes, roles and responsibilities are clear, and a continuous improvement culture is embedded.

Results:

Marshall Institute led an Oil & Gas client with 4000 employees to:

- \$9M in cost avoidance and savings over a 2.5 year period with a \$2M investment
- A tenfold reduction in downtime on targeted assets - pushing out the MTBF from every 30 days to every 301 days

Contact Marshall Institute to develop, improve, optimize, and sustain world class energy maintenance performance.



The energy industry faces unique challenges that require custom solutions. Marshall Institute has created targeted and custom services that will impact your critical business challenge: asset reliability.



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To improve the Maintenance and Reliability performance of your organization, contact **Marshall Institute** at (919) 834-3722.
EMAIL: info@marshallinstitute.com
WEB: marshallinstitute.com
ADDRESS: 1800 Tillery Pl, Suite I
Raleigh, NC 27604

Assessment

Your challenge: To ensure asset integrity at the highest uptime and the lowest cost.

Our Approach: Marshall Institute's Energy Maintenance Effectiveness Assessment (EMEA) provides your organization an objective and accurate performance baseline - highlighting your strengths and opportunities for improvement - providing leadership a clear understanding of what the payoff of the suggested improvements can be. The EMEA assesses key maintenance processes, systems, practices, and policies in accordance with API RP 75, SEMS, and PAS 55. Our assessment process can be tailored to meet your specific needs.

Technical Services

Your challenge: To find the resources to meet operational targets while maintaining asset integrity.

Our Approach: Provide focused and proven methodologies, processes, and people to enable energy clients to meet and sustain their targets. Some of the services we provide are:

- ECARA (Equipment Condition Analysis and Risk Assessment)
- Asset data management
- Root Cause Analysis (RCA)
- Reliability Centered Maintenance (RCM)
- Preventive Maintenance Optimization (PMO)
- Criticality analysis
- Procedure writing

Strategic Planning

Your challenge: To simultaneously meet your operational and strategic objectives.

Our Approach: Marshall Institute will work hand-in-hand with your Maintenance Team to define and identify critical issues, determine your goals, develop your strategy, engage your executives, and develop a governance model. Marshall Institute can provide ongoing support during the strategy implementation.

Work Management

Your challenge: To maximize equipment uptime and optimize maintenance spending through effective work management.

Our Approach: To improve your systems and practices, specifically maintenance planning and scheduling, through hands-on training, on-the-job coaching and mentoring, and follow up audits in:

- Work management using ERP, EAM, and tools such as SAP PM, Maximo, and Infor
- Work management performance metrics
- Shutdown and outage management



Maintenance Training

Your challenge: To ensure your people have the skills and knowledge to guarantee maintenance and reliability is a profit center.

Our Approach: To transfer knowledge and skill using detailed and dynamic training courses. These include topics on: Leadership, Maintenance Management, Materials Management, Total Productive Maintenance, and Root Cause Analysis. Our courses can be custom designed to meet your needs.

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