

PM OPTIMIZATION | WORKFLOW OPTIMIZATION | TPM/VALUE STREAM MAPPING

PREDICTIVE SERVICE

PM Optimization

Pilot Project Scope of Work

- » THE COMPLETE PMO PROCESS
- » BUILD A BUSINESS CASE FOR IMPLEMENTATION



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PM Optimization & the Pilot Project

Techniques that will revolutionize your PM's



97% of PM programs need to be optimized.

The demand for greater asset reliability and cost reduction has led most PM Programs. The challenge is how to build the business case to achieve those goals.

The PMO Pilot: The Perfect Place to Start...

The PM Optimization Pilot

Sample the process, validate the results and build the business case for PM Optimization in your site; on your equipment. This approach provides the future-state model and more importantly identifies the limiting factors which could prevent optimization today.

Upon completed, a reports will include, PM's, TPM and data.

PM Optimization – Design the optimum reliability strategy and drive out the waste with a dramatic impact on craft labor and scheduled downtime.

PM Optimization is an easy to follow, standardized, 5-step process which instantly empowers your team. This process transforms your work force, into a team delivering optimized reliability strategies.

DRIVEN RESULTS

- ↓ 40% PM Labor
- ↓ 35% Scheduled Downtime
- ↑ 50% PM Coverage

"We couldn't afford NOT to optimize our PM's. This was the key to meeting our reliability goals."

"Our average exercise gave us a \$2400 instant savings. And that's just on labor"

PMO Pilot Program

The 5-Step Process of PM Optimization

1. Understand Reliability Risk and Current Strategy

- Collection of all existing PM-related data from all sources
- Walk down: Equipment organization into functional assemblies
- Identification of components for each assembly
- Develop digital library for Optimization exercise
- Calculate Equipment Criticality Ranking
- Isolate and link individual PM tasks to targeted components
- Identify failure indicators for components with existing PM tasks

2. Remove non value-added tasks from existing PM strategies

- Replace component tasks with Component Library strategies
- Confirm applicability of task
- Task redundancy optimization
- Confirm failure prevention is outcome of task
- Identify & remove tasks on criticality
- Assess cost effective return on task ??
- Engineered design modification-based task elimination ??

3. Optimization remaining valid tasks

- Task promotion optimization
- Skill assignment optimization
 - Skill promotion and technologies
 - Identify TPM tasks thru process profile
 - Develop TPM visual references and check sheets
- Equipment status optimization
- Reliability job plan optimization
 - Detailed task instructions
 - Specific reliability readings and measurements
 - Lubricants, quantity and procedures
 - Parts, tools and materials
 - LOTO & confined space
- Task cycle time optimization
- Assign optimum task frequency

4. Expose & close reliability gaps in PM strategies

- Close open failure modes on components with existing PM
- Perform failure analysis to add adjust component PM's
- Establish RPN value on components without tasks
- Review OEM recommendations

5. PM Work Order Optimization

- Organize Lean-based flexible batch work orders
- Develop optimized PM's into routes / sub-routes
- Task pass-fail analysis – ongoing PM effectiveness
- Maximize PM frequencies through variable capacity alignment



Deliverables & results

PM Optimization

- Complete reliability strategy
- Maximum labor efficiency
- Lubrication strategy
- Predictive maintenance strategy
- TPM Operator Care development
- Maintainability & Accessibility
- Visual workplace application
- Reliability readings and data management
- Standardized work plans



The PMO Pilot Scope of Work

Off-Site project preparation

There's a lot to accomplish in just two days, so being prepared is essential.

DEFINE THE PROJECT: Conduct a web-meeting with your site team where we define the project scope, select the equipment, and handle logistics for the upcoming visit.

ORGANIZE THE EQUIPMENT: Create functional assemblies systems and then into components we can load into the PM Optimization Toolkit.

UNDERSTAND YOUR CURRENT PM SYSTEM: Complete a PM Program Profile which captures the current process and support systems. This document will be used in building the path forward.

On-site

SHARE THE MESSAGE: Since reliability impacts the entire organization, the Pilot begins with an overview s of Lean Maintenance & Reliability with your site's Leadership team. During this session the process of reliability and the inherent loss found in all models will be defined. By applying recognizable processes, the impact of an effective and efficient maintenance system will be demonstrated.

OPTIMIZE THE PM: Applying PMO techniques, link each task to the equipment, remove non value added tasks, optimize remaining activities and add what's missing through a failure mode review. In addition, we will create the TPM Operator care visuals and check sheets

REPORT ON THE IMPACT: Upon completion, we will present to the Leadership team the outcomes, impact and challenges found. A PMO Pilot report kit will include all reports, forms used, new PM and TPM deliverables.

PMO Pilot Reports Delivered

Original – Optimized PM Report

Understand your entire current strategy and labor commitment

Total Optimization Impact Report

Clearly see the impact of your optimization exercise

Optimization Comparative Task Analysis

See every single task in a comparative before/after state

TPM Operator Care Visual Management System

TPM Single point lessons and operations check sheets

Committed to Quality

Predictive Service is dedicated to providing the highest degree of products and services focused on optimizing maintenance and reliability throughout the world. We guarantee an improved maintenance strategy for your equipment balanced with the application of all optimization techniques.

