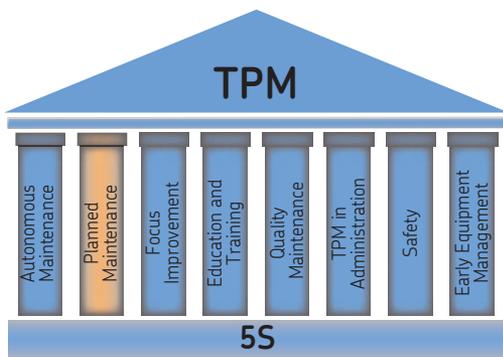


# SKF Asset Management Services

## Maintenance Strategy Review for Total Productive Maintenance

Total Productive Maintenance, an established method to develop a world-class maintenance stature, is often employed independently of a Maintenance Strategy Review. Your SKF consultant can show you how the two methods combine to achieve significant benefits.



The table below illustrates how the combination of TPM and MSR provide more comprehensive benefits than either method alone.

| Benefit                  | TPM | MSR | MSR for TPM |
|--------------------------|-----|-----|-------------|
| Employee Empowerment     | ✓   |     | ✓           |
| Employee Morale          | ✓   |     | ✓           |
| Organization Development | ✓   |     | ✓           |
| Business Goals           |     | ✓   | ✓           |
| KPI Development          | ✓   |     | ✓           |
| Asset Register           | ✓   | ✓   | ✓           |
| Asset Criticality        | ✓   | ✓   | ✓           |
| Failure Modes & Effects  |     | ✓   | ✓           |
| Failure Cause            |     | ✓   | ✓           |
| Work Plans               |     | ✓   | ✓           |
| Documented Program       |     | ✓   | ✓           |
| Justified Maintenance    |     | ✓   | ✓           |
| Root Cause Analysis      | ✓   |     | ✓           |
| Continuous Improvement   | ✓   | ✓   | ✓           |
| Benchmarking             | ✓   |     | ✓           |
| Productivity Increase    | ✓   | ✓   | ✓           |
| Cost Reduction           | ✓   | ✓   | ✓           |
| Reliability Improvement  |     | ✓   | ✓           |
| Zero Defects             | ✓   |     | ✓           |
| Waste Elimination        | ✓   |     | ✓           |

## SKF Maintenance Strategy Review for Total Productive Maintenance

### The TPM Approach

Total Productive Maintenance (TPM), a Japanese philosophy used in many facets of industry seeks to integrate equipment maintenance into the manufacturing process to eliminate waste or losses while producing quality products. By producing as fast as possible with no reduction or no unplanned downtime, the goal is to increase Overall Equipment Effectiveness (OEE) and reduce equipment failure.

In the context of OEE, Maintenance Strategy Review (MSR) is an availability focused entity whereas TPM is performance and quality driven.

By combining TPM and MSR into a step-oriented process that is implemented over time, the objective is to ensure the right maintenance, on the right equipment, at the right time, by the right people, for the right reasons.

Together with your facility's team, your SKF consultant provides tools, techniques, coaching and guidance that ensures your strategy and execution are closely aligned to achieve the benefits you expected. To accomplish this, SKF utilizes our proven SRM maintenance strategy review methodology that provides equivalent benefits as Reliability Centered Maintenance in less time while still meeting the SAE JA1011 standards. SKF can also install and train your personnel on the SKF Asset Management Support Tool (AMST) software to facilitate your MSR for TPM processes.

### Overview of Results You Can Expect

By working with SKF and combining MSR and TPM, you can expect to reduce equipment damage and losses, increase availability and reliability, reduce overall maintenance costs, and employ an optimized maintenance strategy. We achieve this by concentrating preventive and predictive maintenance efforts where they will do the most good, eliminating waste and developing a fully documented basis for the maintenance program. This process then becomes a "Living Program" for continual maintenance improvement and management of change.

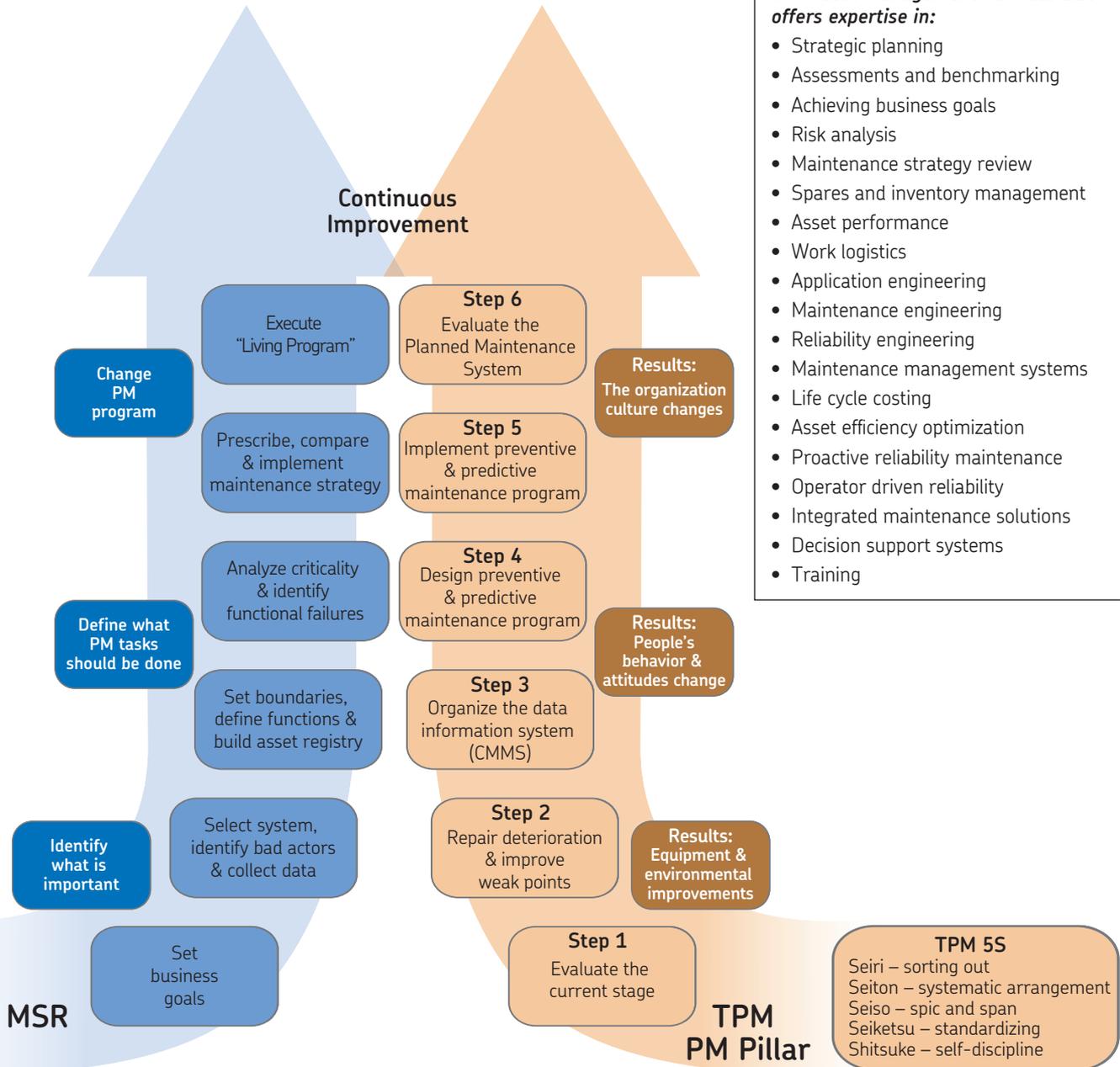
Using the TPM approach with the fortifying strength of SKF MSR provides a documented reliability-based Planned Maintenance (PM) program for the most cost-effective application of the RCM principles. Combining MSR and TPM results in the optimization of PM tasks and maintenance resources and assists in prioritization of all maintenance and operations tasks to create equilibrium in your facility and alignment with your facilities' business goals.



# SKF Asset Management Services Maintenance Strategy Review for Total Productive Maintenance



## MSR for TPM – a combined approach



SKF has integrated MSR into TPM for advanced continuous improvement.

### SKF Asset Management Services

Web Site: [www.skf.com/ams](http://www.skf.com/ams)

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