

Total Productive Maintenance at a glance.

Key Concepts:

- Operators do routine maintenance
- Operators assist mechanic when equipment is down
- Mechanics assist operators with shutdowns / start-ups
- Transfer maintenance tasks to operators that don't require a mechanic

Two Types of Machine Problems:

- Sudden
- Chronic

Five Major Causes of Machine Problems

1. Failure to maintain fundamental machine requirements; housekeeping, oiling, bolt tightening
2. Failure to maintain correct operating conditions; temperature, pressure, speed, etc.
3. Lack of skills; operators or maintenance
4. Deterioration
5. Design deficiency

Implementation

Step one:

- Determine required maintenance tasks
- Establish frequency
- Assign accountability
- Record results
- Combined effort: management, operators and maintenance

Step two:

- Operators first! Keep the machines clean and inspected
- Maintain the normal machine condition
- Detect abnormal conditions early
- Develop countermeasures to regain normal condition (ask why 5 times)

CLAIR:

- Clean
- Lube
- Adjust
- Inspect
- Repair