Total Productive Maintenance (TPM)

Onsite – 5 Days, 8 Hours/day – Optimum class size, 6 - 8 students

Training Description:
The training is primarily focused on launching a TPM effort within a company. The event follows the 10- step Kaizen Process and overlays an 8-step TPM implementation process. During the Kaizen, "machine related waste" will be identified, isolated and subsequently eliminated through the use of TPM techniques. The team will measure the Overall Equipment Effectiveness (OEE) of the pilot machine, analyze the OEE data, prioritize the needs, find root causes for the problems and implement solutions. They will develop a Daily Operator PM Checklist for Autonomous Maintenance. The team will develop a Planned Maintenance checklist for the Operators to follow. The team will establish an Operator Training plan and execute the same.

Training Objective:
To select several pieces of equipment that are critical to being able to meet customer demand to deploy the TPM process on. This will begin to understand and eliminate unexpected down time due to malfunction or worn equipment. Resolving these issues as quickly as possible will avoid costly delays and customer relationship issues. This training will be focused on these critical pieces of equipment to teach operators how they can schedule planned maintenance on the most common areas of equipment failures and have the necessary parts available on short notice to minimize unplanned down time.

Skill Attainment:
Participants will learn to: Identify two main causes for 80% of equipment failures, Evaluate equipment, understanding how 5'S ties directly into improved quality, Analyze equipment condition, Perform Overall Equipment Effectiveness (OEE) observations, Determine baseline the effectiveness of equipment, Analyze equipment failure history, Clean & inspect - how they go hand-in-hand, Calibrate eyes to locate safety issues/problems, Develop countermeasures against contamination, Develop countermeasures to make equipment more accessible

These skills are transferable within the company, industry and are highly desirable by any manufacturer.

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5 Day Focused Improvement Training

What is Total Productive Maintenance (TPM)?
Total Productive Maintenance (TPM) is a process to maximize the productivity of your equipment, for its entire life. TPM fosters an environment that encourages improvement efforts in safety, quality, delivery, cost and creativity through the participation of all employees. This interactive and hands-on class trains participants to independently and proactively improve the safety, productivity, and reliability of their equipment, emphasizing personal accountability and ownership of responsibility.

Participants will learn:

- Techniques to successfully drive equipment performance in all areas
- Effective communication skills encouraging culture change so all employees support equipment performance improvements
- How to clean, inspect and employ visual controls to make problems visible
- Implementation of countermeasures to improve equipment inspection, cleaning and lubrication
- Identification, study and resolution of operating losses
- Development of preventative and predictive tasks focused on preventing operating losses
- Engagement of operators to perform daily care and inspections of equipment

Course Description:
This course utilizes field exercises and examples. Participants develop an assessment of their current state against best TPM practices so they can continue their implementation plan after the course concludes. Topics covered:

- Introduction – Why Equipment Care is Everyone's Business
- Stabilizing Failure Intervals
- Identifying and Improving Productivity Issues
- Developing Maintenance Excellence
- Predicting Equipment Life
- Implementing TPM as an Operating Culture

Course Schedule:

Day 1 – Classroom Phase 1: Stabilize Failure Intervals Classroom Phase 2: Improve Equipment Productivity Equipment Evaluation, 5's, OEE

Day 2 – Classroom Phase 3: Maintenance Excellence Classroom Phase 4: Predict Equipment Life Predictive Tool Demonstration & Evaluation, History, Safety, OEE

Day 3 – Cleaning, Inspection, Repair, Modify

Day 4 – Cleaning, Inspection, Repair & PM Schedule Established

Day 5 – Critical Spare Parts List Established, Presentation to Managers and Co-Workers