This hands-on course explains and demonstrates through practice sessions, the concepts of TPM; how to function as a team, how to conduct cleaning and inspecting activities, how to measure equipment effectiveness, how to write standards, and much more. This training enables team members to begin the process of identifying and resolving equipment-related issues on their equipment.

Basic Equipment Care Workshop
Marshall Institute can assist your operation with the training and implementation of operated-assisted care, commonly known as Autonomous Maintenance, or Basic Equipment Care, and the formation of Equipment Improvement Teams. Equipment Improvement Teams are cross-functional groups made up of operators with maintenance and engineering resource support. They typically meet once a week to work on equipment-related issues.

EIT — Equipment Improvement Teams are cross functional groups made up of operators with maintenance and engineering resource support. They typically meet once a week to work on equipment-related issues.

CLAIR — Cleaning, Lubricating, Adjusting, Inspecting, and Repair, issues related to equipment improvement.

You will experience how to function as a team, conduct cleaning and inspecting activities, measure equipment effectiveness, write standards, implement visual controls, and much more in a hands-on environment. This training will enable team members to begin the process of identifying and resolving equipment-related issues, all while being trained in a TPM manufacturing facility, with TPM coordinators, operators and maintenance leadership who practice TPM on a daily basis.
Benefits of Implementing Basic Equipment Care Workshops

For the Individual:
- Pride
- Professionalism
- More training...more abilities...more marketable
- Better relationships with other departments (maintenance—production)
- Better equipment availability and reliability means fewer hassles
- Safer work environment
- More control over equipment

For the Maintenance Function:
- Maintenance partnership with production
- Time to perform higher functions
- Better trained mechanics and higher levels of expertise
- Greater value to the organization
- Improved image in organization—combat perception that maintenance is a burden, resulting in:
  - Improved morale
  - Lower turnover & hiring costs
  - Lower absenteeism

For the Organization:
- Improvements in operational efficiency
- Improvements in reliability
- Improvements in quality
- Lower operating cost
- More emphasis on planning and preventative maintenance
- Increased equipment life span
- Higher morale from improved job satisfaction and job security
- Improvements in inventory—young loan reduction
- Improvements in Health and Safety
- Foundation for WCM, TQM, JIT, Lean Manufacturing
- Better able to meet customer’s quality and delivery needs
- Improvements in production capacity / availability = increased productivity = increased $
WORKSHOP CONTENT
Basic Equipment Care Workshop (4 or 5 Days)

Basic Concepts of TPM/TPR
Rational/What is TPM/TPR
Why TPM/TPR
Benefits

Equipment Improvement Teams
Team Formation
Equipment Evaluation
  View Equipment
  Run Equipment
  Identify Lock-Out Points/Plan
  Identify Cleaning Needs and Supplies
  Discuss Safety Specific to Machine
  Identify Guard Removal
  Discuss Machine Documentation Availability

7 Steps to Implementing Basic Equipment Care
Step 1: Perform Initial Cleaning
  Cleaning
  Safety/Cleaning Precautions
CLAIR Activity
  Initial Cleaning
  Defect List
Team Coordination
CLAIR Activity
  Initial Cleaning
  Defect Prioritization
Step 2: Address Contamination Sources
CLAIR Activity
  Countermeasures/Repair
  Adjusting/Tightening
Step 3: Establish Cleaning & Lubrication Standards
  Machine Care
    Lubrication
    Cleaning
  Lubrication

Step 4: Inspect Equipment
  Daily Checks
  Operator Inspections
  PMs
  Visual Controls
CLAIR Activity
  Standards
  Inspections
  Visual Controls

Step 5: Improve Process Knowledge

Step 6: Workplace Organization
  5S

Step 7: Sustain Basic Equipment Care
CLAIR Activities
  Complete Open Activities
  5S Area
  Display Board
  Develop Job Aids (Single Point)

Presentations
Preparation
Present
  Team Name
  Team Mission
  Team Members
  Key Learning
  Defect List
  3-Key Repairs
  Open Issues
  Resource Needs
  Standards
  Display Board
  Summary
What Our Customers Have Achieved

- *Kaiser Aluminum* reduced their maintenance overtime by 40%
- *MRC Bearings* reduced unplanned downtime by 98% in one cell and 99% in another—all within one year
- *Monsanto* runs their three-year old TPM start-up plant at 97% on-stream time while most other units run between 85% and 90
- *3M* reduced their maintenance cost by 60% within three years
- *Texas Instruments* reduced their off-quality by 50% in their Philippines plant
- *Whirlpool* improved OEE by 21%
- *DuPont* reduced off-quality by 69% and improved capacity by 29% in three years
- *Leggett & Platt* fixed 3178 previously unknown defects during ACW (Basic Equipment Care) workshop.
- *Harley-Davidson* estimates that the ROI from TPM has been ten-fold their cost of implementation

And this is just a small sampling of our clients’ success stories.