



# Global OpEx Solutions

## Total Productivity Maintenance (TPM)

Feb 8-11, 2011—Austin, Tx.

Course Code: TPM-Feb-11

Many companies suffer from low productivity and morale due to equipment related breakdowns, accidents and defects. TPM helps change the culture from “I operate you fix” to “we are all responsible for our equipment, plant and future” resulting in significant reduction in breakdowns, accidents and defects. In addition, the model and tool changeovers typically have significant opportunity for improvement that can result in significant increase in capacity with no capital expenditure. To put it all together, the Overall Equipment Effectiveness (OEE) provides an effective way of identifying opportunities for improvement across different aspects of failures while providing an overall index on performance.

### Learning Objectives

- ◇ TPM Philosophy & Integrated Management System
- ◇ The seven steps of Autonomous Maintenance (AM)
- ◇ The twelve elements of executing a TPM program
- ◇ Developing a AM/TPM Activity Board to surface problems and ensure sustenance
- ◇ Approach to audit the different AM steps to ensure accomplishment and sustenance
- ◇ How to apply Single Minute Exchange of Dies (SMED) to reduce changeover time
- ◇ How to measure the effectiveness using OEE
- ◇ Hands on activity at a manufacturing location
- ◇ Pitfalls in the culture change through TPM/AM

### Lead Instructor

**Martin Nazareth, President - OpEx Solutions;** is a global consultant in operational excellence involving the strategic application of lean manufacturing (Lean), total productive maintenance (TPM), quality, and industrial engineering (IE). He has led strategic consulting, training and execution at over 100 plants globally. Martin’s background spans several industries, including Automotive, Metals and Mining, Information Systems, Oil and Gas, and Ship Building. He held senior level positions at Alcoa, Delphi and EDS, and has provided consulting through Tata Consulting Services and independently.

Martin has led initiatives including Lean, TPM, FMEA/PCP and error-proofing. He has two masters’ in IE and a bachelor’s in mechanical engineering. He is a certified Project Management Professional (PMP) and a Six Sigma Green Belt. He serves on the board of AME’s Southwest Region and is a Director of IIE’s Lean Division.

**Cancellation Policy:** Enrollment fee less \$100.00 non refundable registration charge will be refunded up to one week before the event. Substitutions may be made any time prior to the start of the workshop. This event may be cancelled by OpEx Solutions for any reason (probability very low), OpEx Solutions will refund the enrollment fee, however, is not responsible for incidental costs incurred by registrants.

### Key Topics

TPM Philosophy & Integrated Management System  
Seven Steps of Autonomous Maintenance  
Overall Equipment Effectiveness (OEE)  
Set-Up Reduction (SMED)  
TPM Activity Board

### Who should attend?

Corporate Executives  
Plant Managers & Business Unit Leaders  
Continuous Improvement Leaders  
Individuals interested in initiating a transformation

### Agenda

Begins at 8:00 AM on Feb. 8<sup>th</sup>  
Ends at 2:30 PM on Feb. 11<sup>th</sup>

### Location (Tentative)

Round Rock Higher Education Center  
Texas State University  
1555 University Blvd.  
Round Rock, Texas 78665  
USA

### Enrollment Fees:

\$1500 OpEx Solutions’ Clients  
\$1650 AME/IIE/PMI Members  
\$1800 Non-members  
Less \$250 If Registered by Nov 19, 2010  
Less \$125 If Registered by Dec.17, 2010  
Less \$200/ea. If 5+ of same org.