



## About the seminar leader:

Robert M. Williamson is an internationally known educator, consultant, and writer on the subjects of *Total Productive Maintenance (TPM)* and *Lean Equipment Management*, specializing in the people-side of world-class manufacturing and maintenance. He has consulted with and trained in over 400 company or plant locations in 43 different industry types over the past 38 years. Since 1996 he has been an associate of the University of Dayton, Center for Competitive Change in Dayton, Ohio. He is an associate of the Maintenance and Reliability Center (MRC) at the University of Tennessee-Knoxville. In 2005 he was invited to be the "Lean and TPM" affiliate with PIT Instruction & Training, a nationally-known motorsports pit crew training center located in Race City, USA (Mooresville, North Carolina) owned by the legendary crew chief and racing sportscaster Jeff Hammond and race team owner Tom DeLoche. Much of Robert's teaching is based on his decade long study of NASCAR Winston/Nextel Cup race teams and the modern pit crew practices - where failure is not an option.

Robert learned the proven principles of TPM from Seiichi Nakajima, the author and "father of TPM" at the Japan Institute of Plant Maintenance in 1990. He has written for Maintenance Technology Magazine since 1988, and is currently the contributing editor for the monthly Uptime column in the magazine. His work is documented in over 100 "client news anonymous" articles.

Robert is a senior associate at the Center for Competitive Change at the University of Dayton. His educational experience includes Vocational Technical Administration (LDP) graduate studies at the University of Michigan; a BS Degree in Trade Technical Teacher Education and Tooling Design from Ferris State College; and Competency-Based Education certification from the State of Michigan, Department of Education. The Association for Facilities Engineering (AFE) certified him as a Plant Maintenance Manager (CPMM). Robert has recently published *Lean Machines for World-Class Manufacturing & Maintenance* (a definitive guide for improving equipment operability & maintainability through applied visuals and minor modifications, 2006).

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## To Register

1. Contact Teri at 937-229-4632 or [teri.stemley@udri.udayton.edu](mailto:teri.stemley@udri.udayton.edu)
2. Online at [www.competitivechange.com](http://www.competitivechange.com)
3. By fax at 937-229-3533

THIS SEMINAR CAN BE HELD AT  
YOUR SITE AND CUSTOMIZED.  
Call 937-229-4632 for information

## Lean Equipment Management II: Advanced Reliability Applications

### What You Can Expect From This Seminar

Lean Equipment Management is NOT about improving maintenance, but rather improving equipment- the single largest investment of most manufacturing companies and utilities. Reliable equipment is one of the most fundamental enablers of lean manufacturing in an equipment-intensive business. Reliable equipment reduces work-in-process inventories, reduces processing delays, improves flow, improves quality, eliminates many "waiting" wastes, and reduces operating and maintenance costs. Lean Equipment principles, based on the pillars of TPM, address people, their equipment, and the work processes they use.

Learn how to determine the extent of equipment-related losses: scheduled shut-downs, downtime, inefficiency, quality and yield. Starting points for Lean Equipment Management depends on the "maturity" of your maintenance work. This seminar aims for fast and sustainable results.

"Many Lean initiatives overlook the equipment-related wastes than Lean Equipment Management and TPM address. TPM grew out of the early stages of the Toyota Production System as a high-involvement way to eliminate equipment related losses. TPM can help launch your Lean initiative with early, sustainable successes. See fast, focused, and sustainable results in two weeks to two months."

**-Robert M. Williamson, Seminar Leader**

### Seminar Content

- Reliable equipment: The foundation for "lean" in equipment intensive operations
- Lean Equipment Management and TPM
- Equipment effectiveness and the Toyota Production System- a historical perspective
- How to make the "pillars" of TPM work
- Measuring "overall equipment effectiveness" (OEE):
  - Identify the 12+ major equipment effectiveness losses
  - Monitoring progress
- Determining the extent of OEE losses
- Developing your Lean Equipment Management "business case" for change:
  - Three data sources to explore
  - Getting buy-in
  - Fast, focused, and sustainable results
- Determine your plant's equipment "maintenance maturity"
  - Highly reactive maintenance
  - Moderately preventative maintenance
  - World-class reliability
- Where to begin in your plant

### Who Should Attend

Continuous improvement coordinators, controllers/general managers, engineers, managers of HR, materials, logistics, operations, production control, maintenance, quality accounting and purchasing, small company owners/presidents, and team leaders/ lead operators

### Our Guarantee\*

We use a Teach, Practice, Apply methodology. The result? You return with immediate, executable plans and competencies that stay with you. Bring a problem plaguing your department or organization, attend the program and leave with an answer.

\*Call for Details!

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