



John Moore is a Project Manager within the Industrial Outreach Service at Mississippi State University. John has 27 years of automotive manufacturing experience with General Motors and Delphi. At Delphi, John had responsibility for lean implementations across multiple facilities in the southeast. At IOS, Moore has provided assessments, training, and assistance in implementation of Lean and Six Sigma systems to Mississippi manufacturers such as Nissan, Viking Range, Hood Packaging, Griffin Industries, Faurecia, and Sheldon Lab Systems. John has a B.S. in industrial engineering from Mississippi State University and a M.S. in manufacturing management from Kettering University (formerly GMI). John can be reached by at johnm@ios.msstate.edu.



Dr. Clay Walden is the Manager of Engineering Extension at Mississippi State University's Center for Advanced Vehicular System Extension located in Canton, MS. He has 20 years experience in successfully implementing quality and productivity improvement within a variety of companies including Mueller Industries, Dover Elevators, Faurecia, Tower Automotive, Herman Miller, and Northrop Grumman Ship Systems. Walden is the lead developer and instructor of the "Introduction to Six Sigma Methodology" workshop, which has taught over 100 engineering professionals the principles of Six Sigma. In addition, he has taught courses within the Bagley College of Engineering including engineering statistics, manufacturing processes, and production control. Walden has a B.S., M.S., and Ph.D. in industrial engineering from Mississippi State University and is a certified Jonah from the Goldratt Institute. Clay can be reached at walden@cavse.msstate.edu

Mississippi State
UNIVERSITY
industrial outreach
SERVICE

Box 9642
Miss. State, MS 39762



The Industrial Outreach Service of MSU's Engineering Engagement & Outreach Service present:

Lean Certificate Program



In Partnership with the Center for Advanced Vehicular Systems Extension

Spring 2008

Lean Certificate Program

COURSE OBJECTIVE: Course objective is to develop participant skills in the recognition and elimination of “Waste”, and to improve “Flow” in their operations. Participants will apply these techniques on an approved project.



IOS Project Manager John Moore (standing) leads members of Franklin Corporation through a lean simulation exercise.

PARTICIPANT INVOLVEMENT: The training will consist of *4 two-day sessions* (i.e., 64 hours of class time) scheduled during a four month period. In addition to the classroom training, each participant is expected to implement techniques and tools provided in this training on an approved project that targets substantial benefits to their respective organizations.

Each participant will receive consulting support both in and outside the classroom to assist with the successful completion of their project. It is anticipated that significant work outside the classroom will be expected in order to ensure maximum results from the student project.

COURSE CONTENT

Session 1 “Lean Principles”

Overview of Lean Principles
Simulation of Product Flow
Customer Focus & Elimination of Waste
Pull Systems, Supermarkets
System Wide Flow
Lean Leadership
Kaizen

Session 2 “The Operator”

Workplace Design 5S
Visual Controls 5S
Standard Work
Poka-Yoke

Session 3 “The Cost of Time”

Process and Information Flow
Supermarkets, Pull, and Kanban
Takt Time & Investment Efficiency
Heijunka
Variation Reduction

Session 4 “Lean Enterprise Transformation”

TPM - Planned Maintenance
Problem Solving Methods: Six Sigma
Lean Management
Teams, Involvement, and Ownership
Value Stream Mapping
Hoshin Planning
Glass Wall and A3

REQUIRED READING:

Lean Production Simplified by Pascal Dennis, provided to each participant

Also:

The Toyota Way by Jeffery K. Liker,
Learning to See by Mike Rother and John Shook,
Gemba Kaizen by Massaki Imia
These books are not provided. Other additional current publications may be provided.

COST/REGISTRATION Information:

Classes are forming for the 1st quarter of 2008. One class will be held at the Starkville, MS campus and another will be held at the CAVS Extension campus in Canton, MS. See schedule. Onsite sessions are also available.

For additional information, please call Mary Brown at (662) 325-0513 or contact Cathy Sims at (662) 325-0513 with a company P.O. number, credit card information, and/or payment information in order to secure your spot(s) in this series of training. Each class size is limited to the first 12 committed reservations. The price per participant is \$2400 for the 8 day series. Training materials and meals will be provided.

CEU's are pending approval from MSU's Division of Continuing Education. Details TBA.

CONTACT:

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Schedule

Main Campus, Starkville, MS:

Session 1: February 5-6, 2008
Session 2: March 4-5, 2008
Session 3: April 8-9, 2008
Session 4: May 6-7, 2008

CAVS Extension, Canton, MS:

Session 1: February 12-13, 2008
Session 2: March 11-12, 2008
Session 3: April 15-16, 2008
Session 4: May 13-14, 2008

WHO SHOULD ATTEND:

All manufacturing, engineering, management, and support staff are encouraged to attend.

What is Lean?

Lean manufacturing is a process management philosophy derived mostly from the **Toyota Production System**, or TPS. It is renowned for its focus on reduction of the original Toyota 'seven wastes' in order to improve overall customer value. Lean is often linked with **Six Sigma** because of that methodology's emphasis on reduction of process variation. Toyota's steady growth from a small player to one of the largest automobile companies in the world has focused attention upon how it achieved its rapid growth, making "Lean" a hot topic in management science in the first decade of the 21st century.