

Program Faculty

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](mailto:walden@ cavse.msstate.edu)



MSU INDUSTRIAL OUTREACH SERVICE

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MSU INDUSTRIAL OUTREACH SERVICE

Lean Certificate Program



IN PARTNERSHIP WITH THE
CENTER FOR ADVANCED
VEHICULAR SYSTEMS
EXTENSION

Spring 2010

Lean Certificate Program

What is Lean?

Lean Manufacturing is a management philosophy derived from the Toyota Production System or TPS. Toyota's steady growth from a small player to one of the largest automobile companies in the world has focused attention on how it achieved its rapid growth and financial success. Toyota's philosophy is to focus every task on satisfying the customer's needs. Reduce or eliminate activities that are not customer focused. Get the product to the customer as fast as possible, and to never be satisfied, but to improve the business continuously and stay ahead of the competition.

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.

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
Learning to See by Mike Rother and John Shook
These books will be provided for each participant.

Recommended Reading

The Toyota Way by Jeffery K. Liker
Gemba Kaizen by Massaki Imia
These books are not provided. Other additional current publications may be provided.

Who Should Attend

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

Cost & Registration

Classes are forming for the Spring 2010. Session 1 and 3 will be held at the MSU campus in Starkville and Sessions 2 and 4 will be held at CAVS Extension in Canton, MS. Eaton and Nissan plant tours and an MSU baseball game are on the agenda for these Spring 2010 classes. See schedule below. **On-site sessions are also available. Contact John Moore at johnm@ios.msstate.edu for details.**

For additional information, please call Cathy Sims at 662.325.0513 with payment information—check, credit card, or a purchase order number can be submitted to secure your reservation(s) for 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.

Schedule

Session 1: February 2-3, 2010 at the MSU Campus, Starkville, MS

Session 2: March 2-3, 2010 at CAVS Extension, Canton, MS
Eaton Tour

Session 3: April 6-7, 2010 at the MSU Campus, Starkville, MS
MSU Baseball

Session 4: May 4-5, 2010 at CAVS Extension, Canton, MS
Nissan Tour

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Registration Form

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2) MAIN CONTACT INFORMATION:

Name
Company
Job Title
Address
Address Line 2
City State Zip
Phone Fax
Email

Schedule

Session 1

February 2-3, 2010
MSU Campus
Starkville, MS

Session 2

March 2-3, 2010
CAVS Extension
Canton, MS
Eaton Tour

Session 3

April 6-7, 2010
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Session 4

May 4-5, 2010
CAVS Extension
Canton, MS
Nissan Tour

3) LIST ATTENDEE (S):

Attendee 1:
Title:
Email:
Attendee 2:
Title:
Email:
Attendee 3:
Title:
Email:
Attendee 4:
Title:
Email:

To reserve your spot(s) in the training, please provide a company PO number or credit card information below:

Number of attendees @ \$2400 each = \$ Total

Credit Card or PO information will be held for total amount.

Company PO Number:

VISA/MC AMEX DISC

Credit Card Number: Exp. Date:

Name on Card: Phone Number:

Fax this completed form to 662.325.7844. Or if needed, call 662.325.0513 with payment information in order to secure your spot(s).