



**Alabama  
Technology  
Network**

The University of Alabama in Huntsville

## **Introduction to Lean with Tube Factory**

### **Description**

This workshop is an excellent course for introducing participants to the basic principles of lean enterprise. Lecture material provides an overview of the background of lean, the eight deadly wastes of manufacturing and the lean tools used to eliminate those wastes. The course also offers participants the opportunity to participate in a simulated factory to see first hand the application of lean concepts and their benefits.

### **Objectives/Topics:**

- Background of Lean
- Simulation Round 1
- The 8 Deadly Wastes
  - Defects
  - Overproduction
  - Waiting
  - Not Utilizing People's KSAs
  - Transportation
  - Inventory
  - Motion
  - Excess Processing
- Simulation Round 2
- Introduction to Lean Tools and Concepts
  - Workplace Organization (5 S) and Visual Factory
  - Quick Changeover and Batch Reduction
  - Quality at the Source and Poka Yoke
  - Total Productive Maintenance (TPM)
  - Pull/Kanban Systems
  - Continuous Flow
  - Takt Time, Cellular Layout and Work Balancing
- Simulation Round 3
  - Implementing Through Kaizen, Teamwork

### **Simulation**

This class features a hands-on simulated factory where participants can apply lean concepts they've learned to the manufacturing assembly line.

### **Course Length**

4 hours

**Class Size**

6-12 participants

**Cost**

- \$2500 to hold at client's facility
- \$175 per person for open enrollment, plus a \$20 per person consumables fee.