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CUSTOM SEMINAR DELIVERED
RIGHT AT YOUR PLANT!

1-Day Kaizen: Pipe Factory Simulation

*See for yourself how one-piece flow can transform
ANY factory from batch manufacturing.*

About the Seminar Leaders:

Alan Lee has led and participated in more than 200 Kaizen events at more than 50 facilities.

Bill Pensworth has participated in more than 800 Kaizen efforts around the world.

Skip Quinlivan was first exposed to Kaizen at Utica Tool in 1982, where he participated in six Kaizens under the direction of Shigeo Shingo. Since then, he has participated in more than 1,000 Kaizen events, including efforts at 40 Danaher Tool Group plants and 50 additional facilities.

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What You Can Expect From This Seminar

You'll work in teams to make continuous improvements in a simulated pipe factory that's moving from the confusion of batch production to one-piece flow. During simulation 1, you'll perform subassembly operations in the "isolated islands" of a traditional manufacturing environment and observe all its inherent wastes. In simulations 2, 3, 4, and 5, you'll apply lean tools progressively to eliminate wastes – and watch the lean factory begin to unfold.

Teams will measure the impact of these improvements by tracking work-in-process (WIP) inventory, reject parts, production output, cycle time, number of operators required, floor space, and parts travel distance, among other measurables. Teams will also apply a financial model to calculate profit and loss for each simulation. The winning team will have made the best improvements to develop the most productive, least wasteful factory setting.

In the end, you'll thoroughly understand push vs. pull manufacturing; know how to build cells, observe and reduce waste, and apply takt time; and be able to identify **immediate** changes you can make when you apply lean tools to your operation.

– Alan Lee, Bill Pensworth, or Skip Quinlivan, Seminar Leaders

Seminar Content

DAY 1 AM

- Introduction to lean
 - Philosophy/benefits of lean
 - Impact of change
 - Time compression
 - Process improvement: the concept
 - Getting started
- Simulation 1: traditional factory
 - Simulation setup: batch production; all 7 wastes present
 - Running the simulation
 - Discussion
 - 7 wastes
 - Kaizen forms
- Simulation 2: push production
 - Simulation setup
 - Running the simulation
 - Discussion: 7 wastes; Kaizen forms; improvements seen
 - Introduction: takt time

DAY 1 PM

- Simulation 3: push production, refined
 - Simulation setup
 - Running the simulation
 - Completing Kaizen forms
 - Time observation

DAY 1 PM *continued*

- Standard work combination sheets
- Load balancing
- Kaizen action sheets
- Table of production capacity by process
- Kaizen target sheets
- Team presentations/instructor feedback
- Simulation 4: one-piece flow
 - Discussion
 - Introduction to one-piece flow
 - Pull system of production
- Simulation 5: further improvements (optional)
 - Discussion
 - One-piece flow: further refinement
 - Introduction: Poka-Yoke, visuals, SMED, autonomation
 - Simulation setup
 - Running the simulation
 - Coaching
 - Completing Kaizen forms
 - Team presentations and instructor feedback
- Wrap-up
 - Simulation 1 vs. simulation 5, compared

Who Should Attend

Continuous improvement and Kaizen facilitators, plant managers and supervisors, process engineers, lead operators, and vice presidents of manufacturing.

How To Get the Most From This Seminar

- Consider this seminar a launching pad for continuing your learning in lean and Kaizen.
- Immediately report – and then apply – what you learned back at your plant.