205 - Cellular Flow Kaizen Training

Onsite – 3 Days, 8 Hours/day – Optimum class size, 6 - 9 students

Training Description:

This is training that dramatically reduces or eliminates lead-time time. The focus of the Cell/Flow technique is to reduce throughput time through the systematic elimination of the "internal" components while streamlining the final production process. The five-step Cell/Flow improvement process is designed to help companies design no/low-cost solutions for improving lead-time. This in turn will help allow manufacturing to meet customer demands for high-quality, low-cost products, delivered quickly and without the expense of excess inventory.

Training Objective:

Students will learn the 5 Steps to Cellular Manufacturing. The first step is to understand the customer demand. This is called the TAKT which tells how fast we must produce product to meet demand. Once we know the TAKT, we begin observing the current process. Second, we time and measure all the operations in the current process. Third, we analyze the current process identifying and eliminating the the 8-wastes. Fourth, we brainstorm and create a future state for the new Work Sequence. Fifth, we review the layout, make appropriate adjustments and implement. Measures will be created produce standardized work, visual flow and an overall lean systems integration.

Skill Attainment:

The workshop will produce a set up team that is fully trained to repeat this activity on a continuing basis. In this hands-on workshop the team will learn how to:

- Review the Current State
- Visualize the Ideal Situation
- Design the Cell
  - Cell Layout
  - Work Station Design
  - Material Movement
  - Andon
  - Standardization
- Kaizen Plan
- Sustain the Cell

These skills are transferable within the company, industry and are highly desirable by any manufacturer.

Training Agenda:

Day 1
Morning Training:
Document Current Process

- Select product(s) to Flow
- Determine if MTO or MTS or Hybrid
- Inventory basics, measures and data
- Draw current State Flow/Spaghetti Maps
- Draw current layout

Afternoon Training:
Design Pull System

- Define Customer Demand TAKT Time
- Draw future state map
- Establish Pull locations
- Calculate order point and order quantities
- Decide on Kanbans (signals)
- Determine flow details
- Time all operations

Day 2
Morning Training
Plan Cell/Flow

- Identify and Eliminate Waste
- Brainstorm Future State
- Set priorities
- Eliminate Unneeded operations
- Simplify All Remaining operations

Afternoon Training
Create Cell/Flow on Shop Floor

- Obtain all items
- Install Cell System
- Train Workers using Standard Work
- Ensure the Cell system works

Day 3
Optimize Cell/Flow System

- Adjust quantities as needed
- Install visual controls to manage Cell/Flow
- Develop a method to update KANBAN quantities based on demand.
- Investigate use of MRP to calculate KANBAN quantities
- Ensure the Pull and Replenish system works