



## EMS Consulting Group

### Connecting Flow: Continuous Flow and Pull Systems

**Description:**

**Course: FLOW02**

Connecting Flow is one the most important concepts of lean and the Toyota Production System. This course will teach the techniques of continuous or one piece flow as well as pull systems including “A” type pull systems (Replenishment pull) as well as “B” type pull systems (Sequential Pull). The course includes a hands-on simulation exercise.

**Audience:**

This course is designed for manufacturing and plant managers, production control managers and supervisors, materials managers and analysts, manufacturing and industrial engineers, industrial managers, operations engineers, purchasing personnel, and anyone involved in the changeover to a lean operation.

**Benefits**

- Less WIP inventory
- Increased operator productivity
- Shorter lead times
- Ability to better handle fluctuating demand

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### **Connecting Flow: Continuous Flow and Pull Systems (Cont.)**

#### ***Outline:***

- Lean and Continuous Flow Overview/Definitions
- Connecting Flow: Continuous Flow and Pull Systems
- Benefits of continuous or single-piece flow
- Identifying and selecting product families
- Calculating takt time
- Metrics
- Identifying and recording work steps
- Operator Balancing
- Layout Guidelines
- Equipment Requirements
- Material management
- Troubleshooting flow problems
- Implementation planning
- Work Distributions
- Scheduling/Hiejunka
- Sustaining
- Batch versus Continuous Flow Simulation
- Kanban Systems
- Inventory Management: Creating Supermarkets
- Calculating Trigger Points (Reorder Points) for Replenishment of Supermarkets
- Kanban and Pull Systems Exercise

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