



EMS Consulting Group

Creating Continuous Flow Manufacturing Cells

Description:

Course: FLOW01

Manufacturing cells have been in use in the U.S. for over 10 years; however, many companies still have found limited success in creating one-piece flow. In this workshop, participants will learn how to design manufacturing cells for true one-piece flow. The course is comprehensive in that it covers all facets of this discipline: understanding takt time, physical layout, analyzing standard work and creating standard work charts, line balancing, load-leveling, setting up a system for auditing, and more. Participants will work through two case examples. They will design cells and work through necessary calculations and analysis. Skills will be immediately applicable to the "real world."

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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Creating Continuous Flow Manufacturing Cells (Cont.)

Outline:

- Lean and Continuous Flow Overview/Definitions
- Benefits of continuous or single-piece flow
- Identifying and selecting product families
- Calculating takt time
- Exercise
- Metrics
- Identifying and recording work steps
- Exercise
- Operator Balancing
- Layout Guidelines
- Equipment Requirements
- Exercise
- Material management
- Troubleshooting flow problems
- Implementation planning
- Work Distributions
- Scheduling/Hiejunka
- Sustaining
- One Piece Flow Simulation

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