

DESIGN SYSTEMS, INC.

Specializing in Manufacturing Process Design & Integration

Pharmaceutical / Health Care

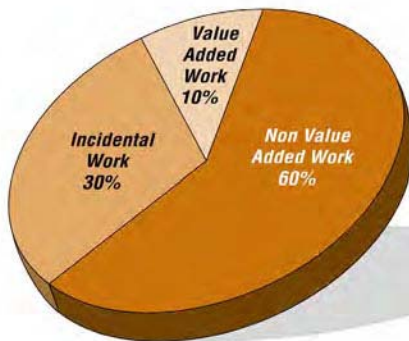
Increase your profitability with lean techniques

Design Systems, Inc. provides comprehensive engineering, facility design and re-engineering services that enable you to maximize the productivity of your people, equipment, control systems and your facility.

Using lean principles we will help you identify needs, create processes and implement strategies that increase bottom line profitability.

Lean is the philosophy that shortens the time between customer service and customer satisfaction by eliminating the sources of waste.

Typically, 90-95% of total "in process" time is non-value added.



The "seven wastes" are commonly defined as:

- Errors
- Waiting
- Inventory
- Over-processing
- Over-capacity
- Transportation
- Motion

An "eighth waste" can be identified as under-utilized personnel.

To embrace the lean philosophy and reduce the high cost of waste in the pharmaceutical and health care industries we:

- Analyze work methods
- Increase value-added activities
- Reduce labor
- Eliminate errors
- Reduce capital equipment costs
- Reduce worker's compensation claims
- Standardize protocols and processes

Call Design Systems today and see how we can help move you become lean and add to your bottom line.

Typical Result of Factory Flow Simulation – Congestion Analysis Comparison – Lab Environment



Total travel distance = 22,158ft/day – current state



Total travel distance = 12,951 ft/day – optimized

"BOTTOM-LINE" RESULTS:

- Reduce Direct and Indirect Labor Costs
- Reduce In-Process Inventory
- Reclaim Sq. Ft. for Future Plant Operations
- Reduce Workers' Compensation Claims
- Improve Your Bottom Line

PHARMACEUTICAL

DSIDSC.COM

DESIGN SYSTEMS, INC.
 38799 WEST 12 MILE ROAD
 FARMINGTON HILLS, MI 48331-2903
 800-660-4DSI • 248-489-4300
 FAX: 248-489-4321

DESIGN SYSTEMS CANADA, LTD.
 3585 RHODES DRIVE,
 UNIT A
 WINDSOR, ONTARIO, CANADA N8W 5B3
 519-944-8807 • FAX 519-944-8853