



Intelligent Process Design



Is Overtime Killing Your Bottom Line?

Many companies struggle with soaring overtime costs and a production load that exceeds their capacity.

Does this sound familiar?

A 100 million dollar manufacturer of high efficiency condensing boilers could not achieve its production goals. It needed to produce 4 units per day but could only achieve 3 in 8 hours, necessitating 40 hours of overtime per month.






Eliminate overtime with
Intelligent Process Design

ECIC Consulting Solution:

An analysis of the production environment showed that the assembly area was not optimized – leading to extra work and inefficiencies. ECIC Consulting:

- Redesigned the assembly process
- Created optimized assembly areas with necessary tools and materials for each phase (replacing a production line format)
- **As a result, the company increased production from 3 units per 10 hour day to 4 units per 8 hour day.**

Bottom Line Results

 Eliminated Overtime	 Increased productivity from .3 to .5 units per hour	 Decreased travel motion 75%	 Increased assembly efficiency 40%	 Increased first time pass test 30%
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ECIC Consulting

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Are process design flaws causing quality issues?

A 22 million dollar sheet metal fabrication company was struggling with the quality of the bending machines they were producing. The poor quality required manual welding and significant unnecessary extra time to keep the welded frames from warping.

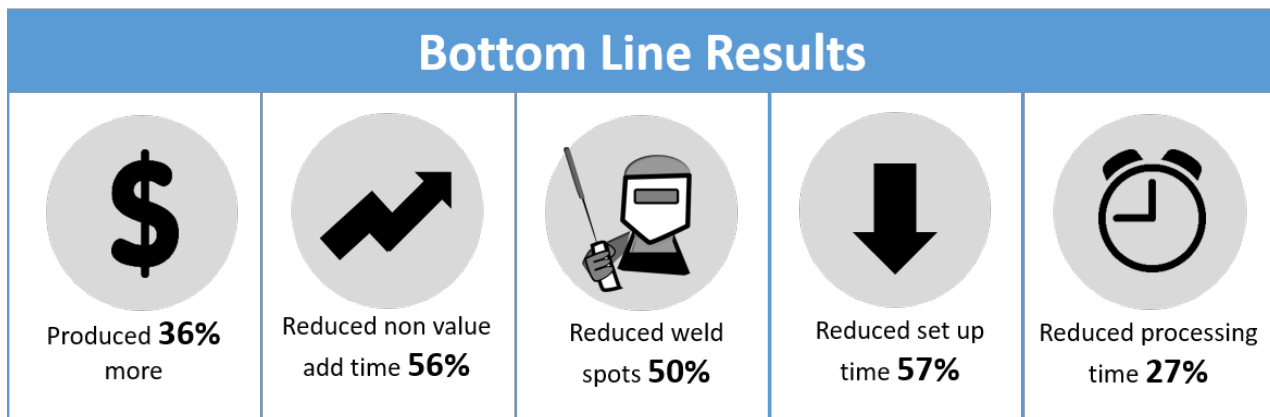
Improve quality with
Intelligent Process Design

ECIC Consulting Solution:

An analysis of the process confirmed the need for an optimized welding pattern to improve quality and decrease non value added time. ECIC Consulting:

- Conducted a detailed weld strength study to find the optimal welding pattern
- Created and implemented an optimized process
- **As a result, the company greatly improved quality and increased production 36%.**

Bottom Line Results



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What would a **25% increase in throughput** mean to your bottom line?

A 25 million dollar sheet metal fabrication company needed to produce welded cabinets faster. They knew there was significant unnecessary work in their process but didn't know how to fix it.


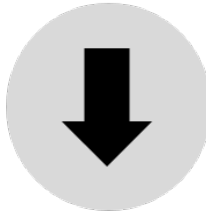



Increase throughput with
Intelligent Process Design

ECIC Consulting Solution:

An analysis of the production area confirmed several inefficiencies. ECIC Consulting:

- Re-designed the process to eliminate unnecessary work and travel across the shop
- Optimized the press brake setup to make the cabinet enclosure in one step
- **As a result, production increased from 32 to 40 units per day.**

Bottom Line Results

				
Produced 25% more cabinets per day	Reduced lead time 50%	Decreased travel motion	Optimized press brake set up	Reduced brake setup time 40%

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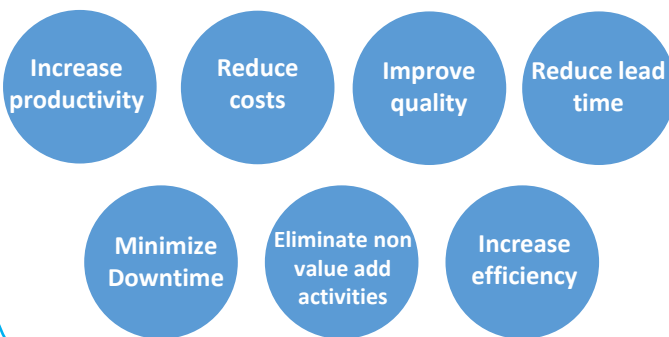
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Powerful Techniques to Increase Productivity & Decrease Costs

ECIC Consulting drives real change, from efficiency gains to reduced costs. We apply powerful techniques to significantly improve your quality and profit.

Lean Manufacturing

Improve Manufacturing Performance & Profitability



Cost Reduction

Improve Profitability & Competitiveness



Lean Warehouse Experts

Increase Warehouse Productivity, Improve Efficiency, & Reduce Costs



Intelligent Process Design

Don't resort to cheaper materials ...

Redesign the process to make it less expensive

Intelligent process design is the key to high efficiency, low costs, & high quality.

Learn More

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How would your customers like their lead time decreased **300%**?

A 75 million dollar manufacturer of Thermoplastic Valves Piping and Actuation system for industrial processing applications was producing their units in Japan. The 8 to 12 week lead time made them lose customers to the competition. In addition, custom designs required approvals from the parent company, making the lead time even longer. The company also wanted to produce the valves in the USA.

Decrease lead time with
Intelligent Process Design





ECIC Consulting Solution:

ECIC Consulting worked alongside the manufacturer to:

- Develop a dedicated class 1000 clean room wash and assembly facility and a custom DI water ultrasonic wash system in the USA
- Move design control in house with fast approvals and start of production
- Create, implement, and document an optimized quality controlled manufacturing process

As a result, the company greatly improved quality and decreased lead time 300% (eight weeks to two weeks).

Bottom Line Results

				
Moved production to the USA	Reduced lead time 300%	Brought valve design control in house	Optimized and documented process	Improved quality

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Learn how Lean Manufacturing & 5S can revolutionize your process

A 75 million dollar manufacturer of lighting fixtures wanted to implement Lean Manufacturing & 5S to **increase productivity, improve efficiency, and decrease costs.**

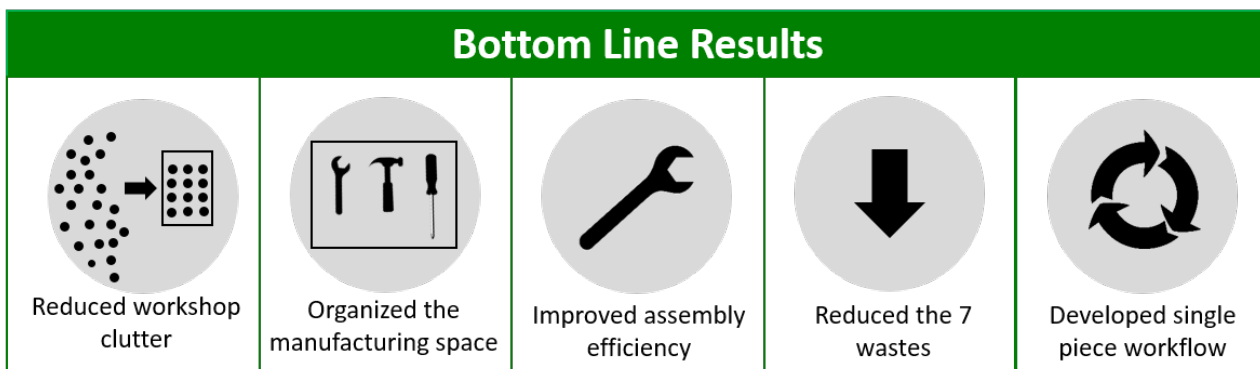
Increase productivity & decrease costs with
Lean Manufacturing & 5S

ECIC Consulting Solution:

An analysis of the manufacturing space and process showed inefficient practices and significant non value added time. ECIC Consulting redesigned the process with Lean Manufacturing and 5S techniques and trained the staff.

The results were remarkable:

Bottom Line Results



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