



10 Effective Strategies for Operational Resilience

In today's climate of economic uncertainty, inflation, layoffs, and budget freezes, companies are pressured to "do more with less." PMC helps businesses navigate these challenges head-on by eliminating inefficiencies for leaner operations. In times like these, fixing the flaws in your processes isn't optional — it's critical.

With 40 years of experience and over 2,000 successful projects, we deliver industrial engineering solutions that eliminate waste, optimize workflows, and drive measurable results. We don't just recommend improvements — we engineer them into your operations to boost ROI in weeks, while also setting you up for long-term gains that go far beyond a quick fix.

Here are the ten most effective strategies for operational resilience, without sacrificing quality or performance:

1 Implement Lean Manufacturing Principles
Use practical Lean tools like 5S, value stream mapping, and standardized work to reduce waste and improve production flow. Combine these methods with real-world data to identify inefficiencies, streamline processes, and support consistent, measurable improvements across your operations.

2 Data-Driven Process Visualization
Visualize and analyze your operations using simulation modeling and industrial analytics. By basing improvements on actual performance data, you can test process changes, uncover inefficiencies, and make more informed decisions—before committing time or resources on the floor.

3 Digital Twins for Smarter Maintenance
Leverage Asset Information Modeling and Digital Twins to make preventive maintenance more accurate and effective, while enhancing planning tools like Visual Planning with real-time equipment data.

4 Improve Facility Layout
Redesign floor plans to reduce movement, handling time, and improve efficiency. Use traditional layout tools or laser scans to build simulation models to test changes virtually—saving time, avoiding mistakes, and guiding smarter decisions.

5 Automate Repetitive Tasks
Reduce labor costs and improve production consistency by deploying robotics, reconfiguring conveyors, and using advanced software tools to apply automation and analytics to streamline your operations.

6 Enhance Supply Chain Management
Strengthen your supply chain by using real-time data to forecast demand and manage inventory levels. These strategies reduce holding costs, improve delivery reliability, and help maintain steady production even when global logistics are unpredictable.

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Standardize Work Procedures
Establish clear, repeatable procedures that reduce variation, improve training speed, and cut down on rework and errors. Well-documented standards not only improve daily performance but also create a reliable foundation for scaling operations and introducing automation tools.
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Line Balancing
Distribute workloads evenly across production lines to eliminate bottlenecks, reduce idle time, and make better use of your manpower and machinery. By analyzing task durations and constraints, you can reconfigure lines for higher throughput and greater flexibility—without the need for extra labor or equipment.
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Plan for Every Part (PFEP)
Gain tighter control over your inventory by creating a detailed PFEP system that tracks sourcing, storage, usage rates, and replenishment strategies for each component. This targeted approach reduces overstock, shortens retrieval time, and improves the flow of materials through your facility.
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Focus on Value-Added Work
Free up time and resources by eliminating non-value-added tasks. Whether through process mapping or time studies, PMC helps you focus on what truly adds value—reducing waste, cutting costs, and keeping your team focused on what matters most.

**Trust the Experts at PMC with your optimization projects --
You can't afford to wait**

Customer Problem

A mid-sized automotive parts manufacturer was hit with a 15% rise in logistics costs and inconsistent supplier pricing, straining operations.

PMC's Solutions

PMC used supply chain simulation and shipment analysis to identify redundancies and opportunities for consolidated freight. Additionally, a value-added and non-value-added analysis identified time and material waste.

Results

Freight costs dropped by 18%, supplier reliability improved, and the client saved over \$800,000 annually.

Customer Problem

A major packaging facility faced persistent production line delays, driving up labor costs and slowing throughput.

PMC's Solutions

PMC conducted a detailed time and motion study, captured workstation layouts through laser scanning, and found a 19% loss due to inefficient material handling; we then redesigned workflows and resource allocation.

Results

Through targeted adjustments, PMC boosted throughput by 18% - the industry standard is 20%, but it is very hard to achieve.

**Ready to strengthen
your operations and
see measurable
results fast?**

Let's talk about how PMC can tailor these strategies to your unique challenges and goals.

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