

Lean Manufacturing

*Creating Value Through
Efficient Processes*



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Smart Consulting Group – Industry Experts in Lean Manufacturing

Lean pharmaceutical manufacturing/ bio manufacturing services

It is important now more than ever to generate value through the use of innovative manufacturing approaches. Nowhere is this more apparent than in the case of biopharmaceuticals where the era of the biological generic equivalent (bio similar), is upon us.

Today, for both pharmaceutical and biopharmaceutical products, new production methodologies and equipment platforms are providing new opportunities to rethink how our products are made. This has introduced vast opportunities to apply lean process excellence ideas. In particular, this includes the switch from “push” to “pull” production.

All this sounds great but what are some of the key drivers?

Cycle time reduction, lead time reduction, reduction in changeover time, reduction in all forms of waste (TIMWOOD), reduction in WIP, proper integration of process unit operations, data transport, better sizing of equipment with batches, improved delivery reliability-process capability, and takt time.

How do you achieve this?



Smart Consulting Group uses a three stage system of process design, customer-driven project management and lean process excellence tools to drive the process.

1 Step 1 – Process Design

First we perform a process diagnostic which assesses all facets of the current operation. From there, we generate a process map and value stream map which illustrates how your process currently operates.

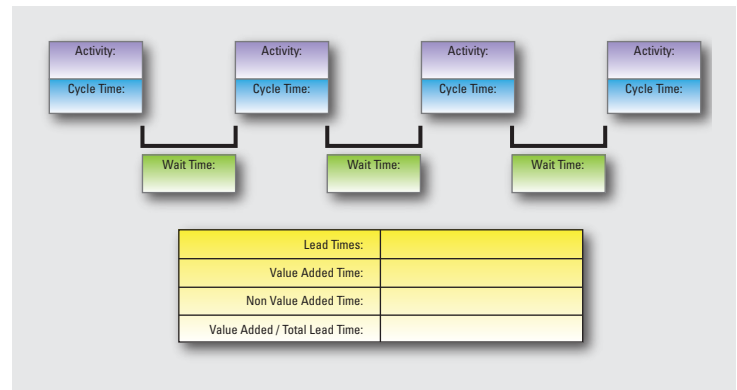
Next we generate a vision of what the improved future state would look like with the process, taking note of all the human, equipment and other resources needed. At this point, we generate a gap analysis which details what is required for every function to transition to the future state vision.



2 Step 2 – Customer Driven Project Management

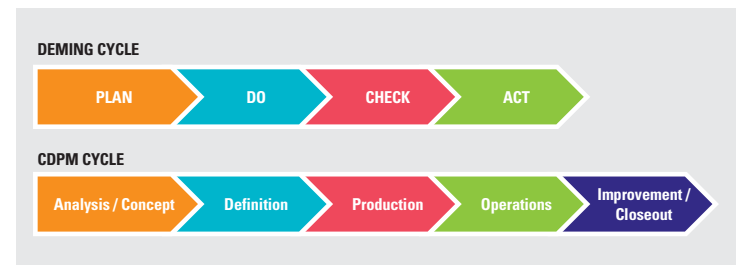
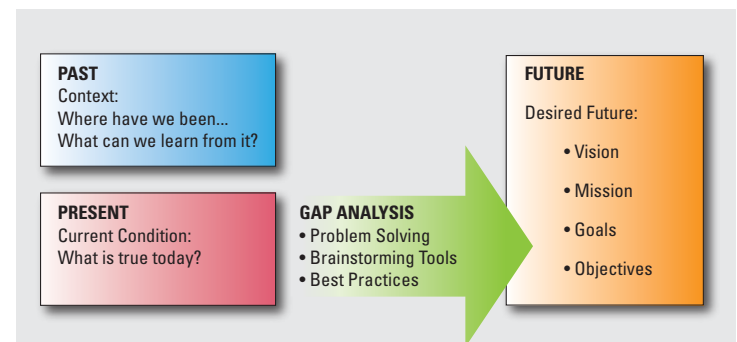
From the gap analysis we develop a transformation plan which outlines everything required to transition from the current state to the new future state vision. This includes all the tasks required, the resources required to complete these and any necessary changes to enable the transformation to occur such as organizational cultural changes.

Each element requiring change is built into a master work breakdown structure by a dedicated project manager working with the company's team leaders and an execution plan is designed to deliver the change.



3 Step 3 – Lean Process Excellence

Success occurs because we use lean process excellence tools such as performance scorecards to measure key performance indicators so we know how things are doing. Whether this is a cost of goods breakdown, production yield per batch, process cycle time reduction time analysis by QC test, decrease in equipment breakdowns, or right first time analysis, our team uses modern metrics and performance dashboards to ensure the results you need are being delivered.



The experts at Smart Consulting Group will rev up your performance and compliance!

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Smart Consulting Group Lean Manufacturing Consulting

*Call us at **610-344-9218** to find out how we can help your facility reduce waste, streamline processes and increase profits.*

