1. Process Design

The process for manufacturing your product is critical. This can be the linchpin that brings the constituents together in a masterful symphony or an endless source of product failure and customer complaints. We can help design for the former to avoid the latter. Your current process, whether it is conceptual or development stage, will be analyzed for its capability to produce the product within your established specifications. Each process step will be scrutinized with the goal of achieving the product specifications in mind. The critical process parameters will be isolated and optimized for production of the final product that is in statistical control.

2. Process Improvement

Process Improvement is a methodical strategy used to investigate your process, determine where issues with quality, throughput or safety may be improved. Once these areas have been identified, techniques within the Six Sigma strategy and Lean Manufacturing tools may be used to address the observed deficiencies.

2.1. Six Sigma

Six Sigma is a methodology used to improve process outputs by implementing statistical methods. An investigation of your process using the DMAIC (Define, Measure, Analyze, Improve and Control) could reduce the variation that may be causing your product to be out of specification. If you are developing your process, the DMADV (Define, Measure, Analyze, Design and Verify) will be employed to design statistical control into your process.

2.2. Lean Manufacturing

Lean manufacturing is used to reduce waste in a process. These tools focus on improving the efficiency of your process. As a result, techniques such as time studies, flow charts, JIT (Just In Time) production and 5S are used to reduce the waste that may be present in your process.

3. Mechanical Design

The process of taking a conceptual idea to production requires creativity and manufacturing experience. The use of Computer Aided Design (CAD) tools and a diverse mechanical and process design background gives us the unique ability to see your idea through production.

4. Facility Qualification

Once the contractor has finished their work, it is important that their work be verified. If you are a medical device or pharmaceutical manufacturer it is required if the newly constructed area or renovation is a controlled manufacturing environment. We have the background to write the protocol and assist in its execution to verify that the specifications that were provided to the contractor is what the final, as built, facility meets.

5. Technical Writing

Transforming technical jargon into verbiage that can be comprehended by laymen is required in many industries. This is especially useful when you have a piece of equipment that is intended to used on a manufacturing floor by a Operator. We can transform those operating instructions into an operator manual that can be easily understood.