

Engineering Business Process Review

A first step to process improvements

What is it?

An Engineering Business Process Review is an analysis of your current processes within your organization. The objective is to understand existing processes and identify strengths, weaknesses, and inefficiencies to identify possible areas for improvement.

The Process:



AREAS OF FOCUS

Spend time interviewing key stakeholders from each department.



WHAT WE HEARD

Provide documentation on what we heard.



RECOMMENDATIONS

Elaborate on suggestions for improvement.



CALL TO ACTION

Establish next steps (foundational, impactful, streamline).

Typical Areas of Focus

Our review covers several key areas that affect how well your engineering processes and organization function. We will explain how we examine each area and what we look for to help you improve your operations.

- > **ENGINEERING WASTE:** Identify activities that don't add value to the final product or service, such as defects, rework, overproduction, inventory
- > **ENGINEERING PROCESS REVIEW:** Examine the current state of the engineering processes, such as design, development, testing, and deployment, and identify the gaps, problems, and opportunities for improvement..
- > **DATA MANAGEMENT REVIEW:** Assess how information is gathered, stored, and utilized throughout engineering processes.
- > **DESIGN AUTOMATION REVIEW:** Evaluate the use of software tools to automate or assist some aspects of the engineering design process.
- > **SYSTEMS INTEGRATION REVIEW:** Evaluate how well your systems work together
- > **MANUFACTURING AID & SUPPLY CHAIN REVIEW:** Automate and optimize the production of manufacturing aids and tooling. Reduce outsourcing and costs.

Accelerate Your Time to Market with New Products

Our goal is to partner with you and help you accelerate your product launch. We will assist you in implementing industry best practices for your business processes.

HOW WE ARE GOING TO HELP:

- Improve the integration of design, business, and manufacturing systems
- Enhancing project collaboration between all departments
- Ensuring data integrity and reliability throughout your operations



ACTION ORIENTATED OUTCOMES:

- Maximize investment of design tools
- Improved change management controls during design & manufacture
- Lower design manufacturing costs and lead time

Is It Time for an Engineering Business Process Review?

Are you currently experiencing any of the challenges listed below?
If yes, it's time to consider a review!



DESIGN STANDARDS AND REUSE:

- Lack of established design standards or successful utilization of standards.
- Ineffectiveness in design reuse.

DATA DISCREPANCIES:

- Design data misalignment with manufacturing data.
- Separate Mechanical and Electrical designs and BOM (Bill of Material).

DESIGN CONSISTENCY & TIMELINESS:

- There are too many design errors or inconsistencies in designs.
- Consistent delays in design project timelines.
- Do you experience high costs and lead times for manufacturing aids and tooling?

WORKFORCE CHALLENGES:

- Employee retention concerns.
- Difficulty in finding and retaining skilled labor.

SOFTWARE UPDATES & COMPATIBILITY:

- Not staying current with the latest software releases and capabilities.

Typical Areas of Recommendation

Below are instances of both tactical and strategic areas where we would recommend improvements.



TACTICAL:

- Reduce SOLIDWORKS Client Crashing Issues
- Improve Design Engineering Proficiency
- Standardize Toolset & Engineering Practices
- Engineering & Change Management Practices
- Integrating SOLIDWORKS PDM/ERP

STRATEGIC:

- Sales/Quoting Process Improvements
- Investigate Design Automation Opportunities
- Integrating SOLIDWORKS Products
- Exploring Additive Manufacturing