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Cost Reduction Analysis

Operational Excellence

Business Process Improvement (Lean / Six Sigma)



GABRIEL DANIELS FE

a Lean Six Sigma Consultant focus on Cost Savings & Process Improvement

6S METHODOLOGY, GDF

6S



DMAIC Lean Six Sigma Explained By Gabriel Daniels PE. Lean Six Sigma Master Black Belt

Date: **29 Dec 2017** Author: **gabriel Daniels**

6S, a modification of the **5S methodology** which includes “Safety” as the 6th S. It is a lean process improvement tool that stands for Sort, Set in Order (aka Straighten or Stabilize), Shine (aka Scrub or Sweep), Standardize, Sustain, Safety.

6S can be the shortened form of Six Sigma.

- **5S Seiri**, or in English; Sort, Clearing, Classify. In this stage we remove all clutter and unwanted items leaving only the tools, equipment, components, and machines that are required on a daily basis.
- **5S Seiton**, or in English; Straighten, Simplify, Set in order, Configure. This stage is where we organize all of the remaining items; using ergonomic principles to locate items where they minimize movement and reduce stress. We also ensure that items are clearly identified and have a clearly identified home – “A place for everything, and everything in its place.”
- **5S Seiso**, or in English; Sweep, shine, Scrub, Clean, and Check. This is the cleaning and painting of the area to bring it to a “new” standard. The reason for this is not just to make the area look pretty but to ensure that things like leaks and other issues stand out against the otherwise clean area.
- **5S Seiketsu**, or in English; Standardize, stabilize, Conformity. During this phase of 6S, we standardize the previous stages of the implementation by ensuring common color codes and ways of working.
- **5S Shitsuke**, or in English; Sustain, self-discipline, custom, and practice. This is where we try to make the process part of the culture of the company to ensure the ongoing implementation and improvement of this initiative.

- The 6th “S”; Safety, we now concentrate on safety aspects of our initiative, reviewing every action and each area to ensure that we have not overlooked any potential hazards.



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