Improving capability

1. Standardize process.
2. Process is in control, can’t reduce variation except special cause.
3. Capability depends on two things:
4. Process mean
5. Process variation (common cause)
6. Measurement system Analysis says estimated common cause is due to variation of process, operator or equipment.
7. The process mean is a function of the process inputs/settings.
8. These are obtained from the Process Map.
9. The importance of process inputs/settings can be prioritized with the Cause and Effect matrix.
10. The most important ones can be used in a designed study/experiment to model the process mean as a function of the chosen settings.
11. The simplest empirical model, like regression is used to model the process mean.
12. Find the settings which put the mean on target and use the “best” (easiest, economical…)
13. Settings sometime can be used to reduce process variation too.
14. This solution does not fundamentally change the process here.