Group #I1.02 - Greene Tweed

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Problem Statement

Greene Tweed uses compression molding to manufacture high performance seals - standard O-Ring and Customs Seals - for various industry segments. Unoptimized daily production scheduling is the bottleneck in Selma manufacturing process causing backorders impacting the facility on time delivery metrics.

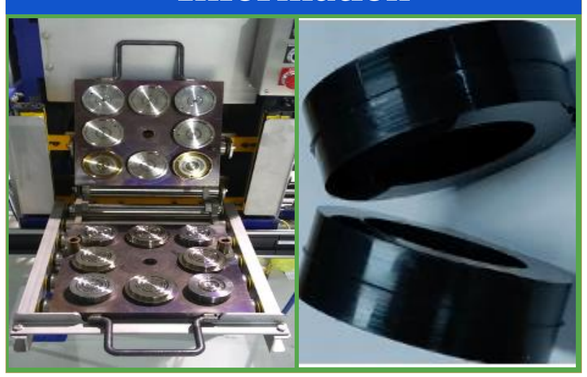
Purpose

The purpose of this project is to develop a baseline efficiency for production process. Implement a scheduling process that incorporate molding standard O-Ring and Customs seals during the same molding cycle. Optimize molding process by grouping work order per molding parameter specification.

Objectives

- Maximize the utilization of molding lines presses, increase operator productivity and overall equipment efficiency.
- Use A3 DMAIC approach to design or propose a most robust scheduling process
- Decrease machine idle time and increase presse platen usability

Information



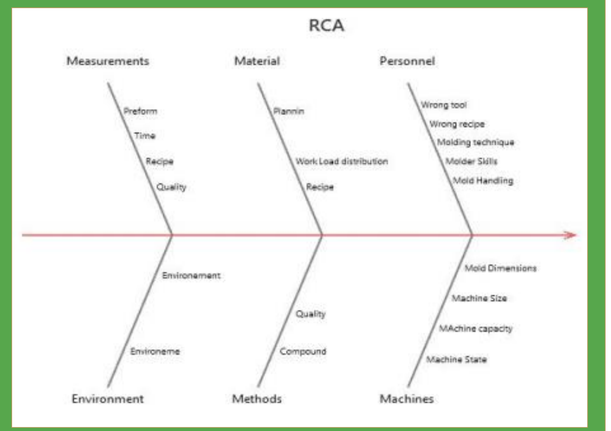
Methodology

Measure

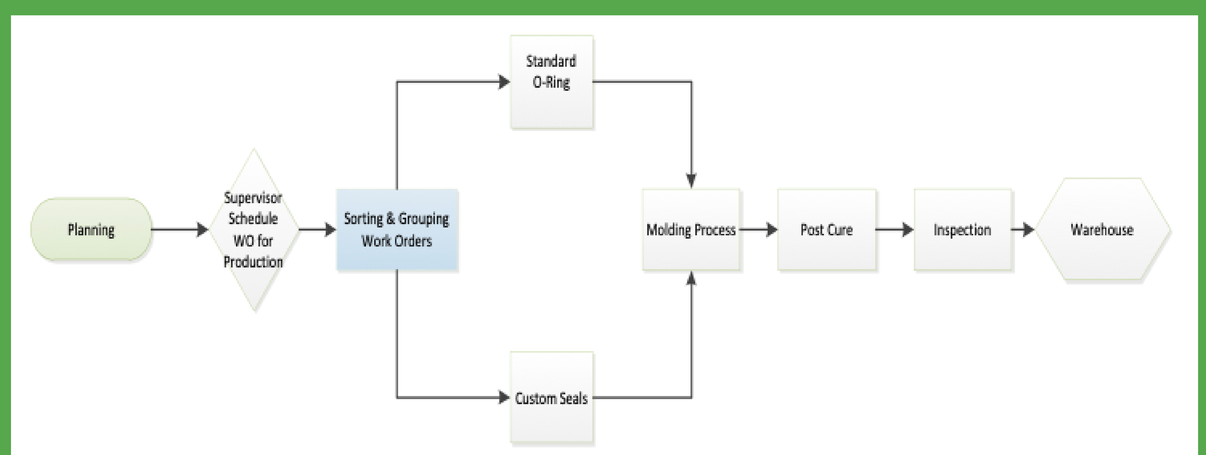
- Collect and analyze daily production data

- Perform analysis of molding process

- Study and compare different compound characteristics



Analyze Phase



Future Plans

-Visit plant
-Conduct time study
-Create end to end flowcharts
-Use data from time study to reduce ST
-Implement DMAIC methodology
-Meet with Dr.Vega to discuss project
-Plan to meet weekly as a team
-Touch base with sponsor periodically

Evaluation Criteria

Objective	Weight
Develop baseline efficiency percentage	.30
Implement proposed improvements	.30
Increase molding productivity and equipment efficiency by 30%	.40

Team Members

Acknowledgements

- Leroy Brandon (Sponsor)
- Dr. Londa (Instructor)