PepsiCo wants to decrease search time for bins at salts assembly

**Measure:**
- Time Study
- Current Layout Analysis
- Process Map
- Cause and Effect Diagram
- Production Analysis
- 5 Whys Analysis

**Improve:**
- Redistribute production
- Update SAP system
- Create Standard Operating Procedures for drivers
- Optimizing layout

**Control:**
- New time studies
- Flowplanner to simulate new process
- Incentive program for drivers

**RESULTS**

We determined that the quickest way to reduce search time was to establish a designated runoff area for the bins once the rack system is full. The drivers would then use a sheet attached to their clipboard and write down where they placed the bins. This would allow the next shift of drivers to know the bin's location. This would be necessary until SAP could be updated to include the new area in their system. We also believe that the company should invest in new forklifts which would be safer and allow the drivers to access the upper rack space. The facility should also equalize the production rate of the filling room. This would allow the available rack space to accommodate the bins.

**CONCLUSION**

To increase the productivity of the salts assembly line we discovered that some basic organization techniques could yield some great results. Most of these would be easy to implement and relatively inexpensive. The facility could also consider some more advanced, and costly, techniques to ensure the continued improvement of the plant into the future. This project required implementing multiple techniques from our Industrial Engineering curriculum as well as a great group dynamic to ensure its success.

It is now up to PepsiCo to choose whether or not they would like to implement our ideas.