Rock Solid: Combining lean, Six Sigma and theory of constraints creates a process improvement powerhouse

Please write a short summary (of no more than 250 words) of the case. Please be sure indicate which case you picked (include link), why you picked it, and what it was about.

I have picked rock solid assignment. Here task is a part of case study it uses a process of combination of lean, six sigma & 6TOC the theory of constraint for process improvement. The main reason to selection of this case is that this case is a hybrid combination which focus on quality improvement & reducing production variation. It also focuses on eliminate bottleneck as method of 6TOC as well as DMAIC method form of six sigma.

What issue did the organization face and why did it need to be addressed?

The issues the organization faced are given below: 1. It requires high investment cost 2. As a results top management which are always money concern need to focus on process loss to minimize operational cost. 3.Issue need to be addressed because by improving operational method can led the organization to embark on a multi-year quest and results worthy of examination.

How did they show that there was a problem?

They show problem when demand is more than capacity rather the production unit doing underperform. but to measure the capacity. here we need capstone metric. and after studying 14 months of operational activities the metric most correlated with profitability was determined to be tons per hour.

What analysis did they perform and what did that analysis indicate?

here in rock solid, a mines stone crushing Primary process divided into three phases 1. coarse rock to primary crusher 2. conveyed to secondary crusher, then to stockpile. loaded on trucks, then weight & ticketed focusing on process they find out bottleneck process. & find out haul truck carrying rock has bottle neck capacity.

How did they address the problems?

they addressing problem by find out the Capacity in tons per hour for front-end loader, haul truck & primary crusher by measuring root cause. before that they peruse to buy more haul truck as they think primary crusher hinder the production most which is premature decision.

What did they do to ensure the problem did not reemerge?

they ensure not to re-emerge the problem by controlling people, process & machinery. In this case. they. Determine how much time elapse during a typical haul truck cycle (from loading coarse rock to primary crusher). a lower cycle time equates greater production level eliminating bottleneck) capacity increase for people rather say drive by introducing healthy competition introducing capacity calculation. process improvement by introducing route for haul thus eliminating clogging of truck roads make clear which also make the path easy for truck achieve capacity.

What is your overall conclusion of the case? What did you like about the Six Sigma project? What would you have done differently? What was the most striking thing you learned from this case?

It’s a hybrid method of combination of lean, six sigma & 6TOC. here DMAIC is followed professionally to achieve desire goal. 6TOC enabled the mining organization to go Against the operating paradigm and traditional thinking Prevalent in the industry. 6TOC method is most striking part in this case study.