MAINTAIN YOUR COMPETITIVE EDGE
AVIATION ACADEMY
PROCESS IMPROVEMENT THROUGH LEAN MRO SIMULATION

FOR MORE INFORMATION AND CONTACT
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SIMULATING LEAN METHODS IN AN MRO PROCESS

IMPLEMENT AND EXPERIENCE LEAN & THEORY OF CONSTRAINTS THINKING IN A CONTROLLED ENVIRONMENT.

The LEAN MRO simulation provides a controlled environment in which challenging improvements based on LEAN and Theory of Constraints (TOC) methodology could be implemented. The MRO process simulated in the simulation shares the most important characteristics with MRO companies such as a wide variety and unpredictability of maintenance tasks. The simulation shows the basics of LEAN and TOC and challenges you to apply it immediately. With the simulation you can see and notice the effects of interventions directly. It motivates and teaches you to think beyond the boundaries of the departments and lets you view the MRO process as a whole. When implementing LEAN and TOC into processes you will see that the benefits of working smarter outweigh that of working harder. We aim to achieve that LEAN methods are used within the companies in order to fully optimize processes to get the best results.

THE MRO SIMULATION WILL RESULT IN:
- Understanding the overall process
- Solutions for improvements within an MRO company
- Knowledge about LEAN and TOC methodology
- The needed assistance in applying LEAN & TOC
- Identify and eliminate waste within MRO processes
- Improving the key performance indicators

THE LEAN MRO SIMULATION

Benefits of LEAN MRO Simulation for companies:
- Gives insight in process improvements with the use of a simulation based on aircraft comprised out of LEGO parts.
- With the use of the simulation employees can learn the theory behind processes in a safe and steady pace.
- A simulated environment encourages experimenting with optimization strategies.
- Experiment with process improvements solutions without worrying about results.
- The lessons learned can be implemented into the company in order to optimize processes.

The specific features of the LEAN MRO Simulation:
- LEGO® aircraft: LEGO® aircraft are used because of their complexity.
- The variety and the number of bricks add to the challenge.
- MRO Environment: The simulated MRO environment consists of multiple departments with different employees with varying job descriptions. Each department has different roles to perform within the enterprise.
- MRO Departments: The simulation consists of six departments; Customers, Planner, Workers, Inventory, Supplier and a Checker, each have their unique role.

THE LEAN MRO SIMULATION SETUP

Over a period of a few sessions we will gradually implement LEAN and TOC into the simulation. A set of improvement methods will be used and all possible waste present in the processes will be eliminated. At the end of a session we ask participants to give feedback and to come up with new improvements for the simulated MRO process. During the simulation you will gain knowledge about improvement methods such as 5S, 7 Waste’s, Flow and Pull and with the use of these methods MRO processes can be optimized. Through implementing the correct methods at the right time and with the right department greater results are achieved.

INFORMATION

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