



Creating New Cyber Security Compliance Program at a Major Technology Manufacturer

Summary

A global technology manufacturing organization received new compliance requirements from the Department of Defense (DOD) regarding cyber security at their manufacturing plants. The organization did not have any processes documented relating to the new requirements. The new processes had to be implemented across dozens of plants in the US which brought in another layer of complexity. Each plant had different types of equipment that would need to be evaluated for cyber compliance based on when the equipment was manufactured and if it could connect to the network. Another hurdle to tackle was to make sure that the unionized plants could still use the processes since they had union rules to navigate as well. The strategy for this project was to break it down in such a way as to not overwhelm the team considering there were many variables involved. One, non-unionized, manufacturing plant was selected to be the test site for the new processes. The team created new processes as a basis for an onsite workshop at the plant. Once onsite, the team was able to test the processes in real time to make sure they could be implemented in a pragmatic way (the real time testing of processes was referred to as GEMBA walks). The new process models finalized after the GEMBA walks were considered to be reference models that the other plants could use to create specific variants, if required, based on different equipment types and union policies.

Organization Background

The organization stands as a prominent global leader in the aerospace industry, specializing in advanced aircraft engines for both commercial and military applications. With over 100 years of experience in this industry, they have a wealth of knowledge and experience in the aerospace industry. The organization has adopted Lean methodology to continuously improve their processes. They are enriching their Lean culture

by embracing BPM and the use of process modeling and repository management. Based in the US, they have successfully cultivated partnerships with renowned manufacturers worldwide, expanding their business horizons and amplifying their offerings. With a robust workforce exceeding 50,000 employees, they operate across more than 100 countries, solidifying their international presence and ensuring efficient operations on a global scale.

Business Challenge

The DOD created new cyber security requirements based on the growing threats of cyber breaches happening across the world. The organization didn't have any processes documented that would make them compliant with the new regulations. These processes would have to be created from scratch and they would have to be implemented across many manufacturing plants in the US. This was a daunting task because there were many different types of equipment in each plant, with different entry points where a cyber security breach could happen. The cyber processes had to encompass each type of equipment and bring them all into compliance with the new regulations. The organization had to evaluate the differences in unionized plants vs non-unionized plants because the new compliance requirements also had to follow union rules as well.

