

Abstract

Failure Mode and Effects Analysis (FMEA) is a technique used for indicating problems and risk-tendencies of work processes. This study demonstrated the application of Failure Mode and Effects Analysis in a car seat slide adjuster manufacturing process. The result revealed that the lack of grease in seat track provided the highest Risk Priority Number (RPN), which was 144 points. Therefore, methods of reducing the risk of grease deficiency were explored and analyzed. The proper method chosen as a solution to the problem was to install the air pressure regulator for better control of the air pressure to ensure the grease amount. After install, Failure Mode and Effects Analysis technique was reapplied and the result revealed that Risk Priority Number was decreased by 75 percent (36 points). Moreover, the rate of non-conformable products was decreased from 0.024 percent to 0 percent.