



M-LOSA: The Smart Way to Improve Safety Management



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Introduce





Eastern Airlines Technic Co.,Ltd is a wholly-owned holding subsidiaries of China Eastern Airlines co., LTD. There are 17 maintenance bases in China, the main business is aircraft line maintenance, aircraft overhual and component repair. The number of employees are more than 10,000.





Challenge



- Useing the reactive method to identify Hazard can not be accepted.
- Hard to collecting safety data from maintenance operation.
- Employees seldom involved in the safety activities.
- Punitive management can not form a good safety culture.











EASTEC M-LOSA implementation flow chart:





How to analysis observation data:

- Classified by risk matrix
- Risk distribution map





Risk distribution map



How to decide corrective action:

Formed a committee headed by leadship and empolyees, by the way of brain-storming find out the root cause of the problem and developing corrrective action.



Characteristics:





→M-LOSA findings helped to improve tools management

→ <u>Before</u>: Quality department often receive tool's missing reporting due to maintenance crew leaving the toolbox unlocked at the ramp.

→<u>After</u>: Develop electronic lock for the toolbox.
Electronic lock using flexibility and reliability.



8管理,可以直观查看设备电量,开锁情况,开锁时间,开锁人

S我物联锁个人版APP 首次体田默认为管理员







Determine M-LOSA project KPI: Defects per Opportunities(DOP)

 $DPO = \frac{observed undesired state}{total routine works \times rate}$

rate: defect average opportunity in the routine work

DPO tendency chart



Conclusions



- MLOSA provides a means to identify external and internal threats.
- MLOSA is a predictive hazard identification system for SMS that can
 - Reduce costs,
 - Improve safety, and
 - Improve efficiency.
- MLOSA provides a way to check procedural compliance.
- MLOSA provides a way for employees involved in the safety activities.
- MLOSA improves company's safety culture.

Contact



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Thank you