



Dynamic Maintenance Programs (by Rik Plattel)

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The efficiency of production processes is influenced by many factors. In the average industry, over 70% of all factors are caused by other factors than assets. Traditional maintenance programs are mainly focussing on assets and costs. Future maintenance programs are about maintaining and continuously optimising ALL factors influencing efficiency. This means the maintenance focus is changing from “maintaining assets” to “maintaining the failure behaviour of production processes”.

Maintenance influences efficiency. Professional Maintenance Programs must influence the failure behaviour of production processes, in order to manage C.A.R.E (Cost - Availability - Reliability - Efficiency).

To care about C.A.R.E., professional maintenance programs must be developed in a structured way. For high - medium - low critical processes we use different methodologies to

Berichten



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Supplementing these with the new theoretical maintenance concepts must be added to the maintenance plans and will update the CMMS regularly. In the CMMS the maintenance is connected to the executive agenda to become the maintenance program.

Failure behaviour in production processes changes in time due to many reasons. This a dynamic production process should never be maintained with a static maintenance program! Each professional maintenance program must be connected to the ACTUAL failure behaviour.

Using the most important kpi “MPE” (Maintenance Program Effectiveness), maintenance and reliability professionals are able to Maintain ALL factors that influence C.A.R.E.

DORA software uses three methodologies to develop new and optimise existing maintenance programs and continuously optimises and cares about C.A.R.E.

METHODS

The actual failure behaviour is highly important to care about C.A.R.E (Cost - Availability - Reliability – Efficiency) and continuously improve. Using of FMEA or FMECA is structuring describing the failure behaviour. We see many different FMEA's and FMECA's and one of the most common mistake is that FMEA's are filled with failures instead of failure modes and the importance of describing Failure Effects is drastically underestimated

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FMEA for high critical processes and for sure not a FMECA. RCM uses the process while other methodologies like Object Driven Maintenance (ODM) and Quick Maintenance (QM) use the Object FMEA or FMECA.

When the failure behaviour is described in the right way, the FME(C)A is used to evaluate all the criteria to develop the maintenance concept. This is done using the Decision strategy. RCM / ODM and QM use different strategies which look very familiar. The three methodologies all use the definitions as described in the worldwide accepted RCM standard SAE JA1011.

RESULTS

It is of utmost importance to understand that maintenance programs are never finished. Maintenance is about ALL factors that influence C.A.R.E and are influenced by:

- changing quality standards
- changing in raw materials
- changing in procedures
- new products

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- new personnel
- new production processes
- mother nature...
- machine modifications
- new knowledge and equipment to find potential failures as early as possible
- ...

So the result should be “Become Better Each Day”.

CONCLUSION

When failure behaviour is the opportunity to optimise C.A.R.E., who:

- has most experience and is informed as soon as the failure behaviour of the production process is changing?
- knows best how to manipulate the process to get the production numbers out with the quality you want?

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- who should participate in workgroups to optimise C.A.R.E.?

and which terminology is used in order to understand each other and talk the same language?

I strongly believe that the logic behind Reliability-centred Maintenance explains most mechanisms described above.

Therefore the need to use certified people on a RCM Level 1 and RCM Level 2 are absolutely necessary to be able to improve C.A.R.E. and continuously “Become Better Each Day”.

DORA software is build to facilitate all these processes and only accessible by certified people who understand all the mechanisms that drive and care C.A.R.E.

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Dit rapporteren

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0 commentaren



Voeg commentaar toe...



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Meer van Rik Plattel

Productieresultaten uit het verleden bieden geen garantie...

Rik Plattel op LinkedIn

Onderhouden = Care about C.A.R.E.

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