

## Accepted Manuscript

Considering human error in optimizing production and corrective and preventive maintenance policies for manufacturing systems

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PII: S0307-904X(15)00527-2  
DOI: [10.1016/j.apm.2015.08.013](https://doi.org/10.1016/j.apm.2015.08.013)  
Reference: APM 10697



To appear in: *Applied Mathematical Modelling*

Received date: 26 May 2013  
Revised date: 13 July 2015  
Accepted date: 26 August 2015

Please cite this article as: Behnam Emami-Mehrgani , W. Patrick Neumann , Sylvie Nadeau ,  
Majid Bazrafshan , Considering human error in optimizing production and corrective and preven-  
tive maintenance policies for manufacturing systems, *Applied Mathematical Modelling* (2015), doi:  
[10.1016/j.apm.2015.08.013](https://doi.org/10.1016/j.apm.2015.08.013)

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**Highlights**

- We study the impact of human error on corrective and preventive maintenance.
- If the corrective maintenance rate increases, the stock level should be increased.
- Preventive maintenance is negligible when machine failure probability is almost zero.
- Human error during maintenance activities increases the total production cost.

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