

## عنوان مقاله:

Simultaneous increase of effectiveness and efficiency in the Maintenance system of Abadan Oil Refining Company combining the techniques of Failure Mode & Effect Analysis, Root Cause Analysis and Simulation

## محل انتشار:

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## خلاصه مقاله:

The executive approach is presented in this paper in order to localize the new theories in the Maintenance System of Abadan Oil Refining Company with the aim of simultaneous increase of effectiveness and efficiency. An integrated model was formulated combining the techniques of Failure Mode & Effect Analysis (FMEA), Root Cause Analysis (RCA) and simulation in scheduled maintenance and repair program and its performance was evaluated by taking into account the economic considerations and resource constraints in the organization and in order to reduce the machines failure. Also the Monte Carlo simulation was used to model the behavior of the system in order to evaluate the different Maintenance policies and obtained results. Simultaneous reduction of Failures number and consumer spending is meant to increase the Simultaneous effectiveness and efficiency (resulted from successful interaction of Failure Mode & Effect Analysis and Preventive Maintenance in the model). While it is not possible to achieve this important thing in the traditional approach.

## کلمات کلیدی:

effectiveness, maintenance and repair, Abadan Oil Refining Company, Failure Mode & Effect Analysis, Failure Mode & Effect Analysis, Monte Carlo simulation

## لینک ثابت مقاله در پایگاه سیویلیکا:

<https://civilica.com/doc/573218>

