

REDUCING TESTING CHANGEOVER TIME USING SMED APPROACH
CASE STUDY: IN ELECTRICAL MULTINATIONAL COMPANY

By

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.



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ABSTRACT

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PT. XYZ is a company that produces electrical components, they make a product based on an engineer to order (ETO). PT. XYZ find the changeover time in the testing process is very high and still follow the time in the old factory. The focus of this research is to reduce changeover time and standardize the process. In this research, Single Minute Exchange of Dies (SMED) is a method that used in order to reduce the changeover time. Started by observing the entire changeover process from the process after the panel is tested on Post F to loading a new panel for testing on Post F. Suggested improvement proposals that can be made immediately will be implemented directly in the process. For the internal process, the improvement activities carried out are to make the activities run parallel. Then, for external activities, the improvement activities carried out are to make the activities run in parallel and change the work procedures at post F. Through Five S implementation will improve the speed changeover process. Through this improvement it can reduce the change over time by 54% and increase the number of panels that can be tested to 6 panels per work shift.

Keywords: SMED, Changeover, Internal activities, External activities, 5S

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DEDICATION

I dedicate this work to my beloved family and friends, PT. XYZ – Cikarang Plant, my lecturer, and my Self.

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By giving thanks to the presence of Allah SWT who has bestowed His mercy and grace, so that the writer can complete the studies and write this research.

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5. My dearest friends and also my classmates for their support in the completion of the work.

Finally, the writer realises that there are still deficiencies in the preparation of this research. Constructive criticism and suggestions are very much appreciated by the authors. Hopefully this final report can be useful and provide knowledge for its readers.

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