



**INCREASING PRODUCTIVITY BY INCREASING
OVERALL EQUIPMENT EFFECTIVENESS (OEE) BY
IMPROVING THE PERFORMANCE OF HIGH SPEED
DISPERSER MACHINE USING DMAIC METHOD IN
PAINT MANUFACTURER**

UNDERGRADUATE THESIS

Submitted as one of the requirements to obtain Sarjana Teknik (S.T.)

By

REYNALDI

ID No. 004201900047

FACULTY OF ENGINEERING

INDUSTRIAL ENGINEERING STUDY PROGRAM

CIKARANG

JUNE, 2023

PANEL OF EXAMINER APPROVAL

The Panel of Examiners declare that the undergraduate thesis entitled **“INCREASING PRODUCTIVITY BY INCREASING OVERALL EQUIPMENT EFFECTIVENESS (OEE) BY IMPROVING THE PERFORMANCE OF HIGH SPEED DISPERSER MACHINE USING DMAIC METHOD IN PAINT MANUFACTURER”** that was submitted by **Reynaldi** majoring in Industrial Engineering from Faculty of Engineering was assessed and approved to have passed the Oral Examination on Tuesday, 13 June 2023.

Panel of Examiner



Dr. Ir. Mohamad Toha, M.T.

Chair of Panel Examiner



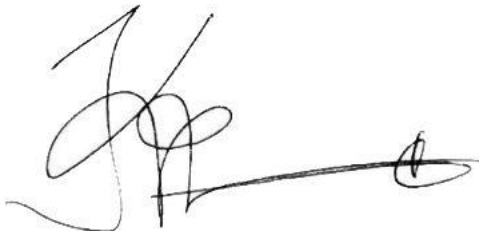
Athina Sakina Ratum, S.T., M.Sc

Examiner I

**THESIS ADVISOR
RECOMMENDATION LETTER**

This Final Project entitled “**INCREASING PRODUCTIVITY BY INCREASING OVERALL EQUIPMENT EFFECTIVENESS (OEE) BY IMPROVING THE PERFORMANCE OF HIGH SPEED DISPERSER MACHINE USING DMAIC METHOD IN PAINT MANUFACTURER**” prepared and submitted by **Reynaldi** in partial fulfillment of the requirements for the degree of Bachelor Degree in the Faculty of Engineering has been reviewed and found to have satisfied the requirements for a thesis fit to be examined. I therefore recommend this thesis for Oral Defense.

Cikarang, Indonesia, May 25th, 2023

A handwritten signature in black ink, appearing to be 'JR' followed by a long horizontal stroke and a small circular flourish at the end.

Johan Runtuk, S.T., M.T.

STATEMENT OF ORIGINALITY

In my capacity as an active student of President University and as the author of the thesis/final project/business plan (underline that applies) stated below:

Name : Reynaldi
Student ID number : 004201900047
Study Program : Industrial Engineering
Faculty : Engineering

I hereby declare that my thesis/final project/business plan entitled " INCREASING PRODUCTIVITY BY INCREASING OVERALL EQUIPMENT EFFECTIVENESS (OEE) BY IMPROVING THE PERFORMANCE OF HIGH SPEED DISPERSER MACHINE USING DMAIC METHOD IN PAINT MANUFACTURER" is to the best of my knowledge and belief, an original piece of work based on sound academic principles. If there is any plagiarism detected in this thesis/final project/business plan, I am willing to be personally responsible for the consequences of these acts of plagiarism and will accept the sanctions against these acts in accordance with the rules and policies of President University.

I also declare that this work, either in whole or in part, has not been submitted to another university to obtain a degree.

Cikarang, May 25th, 2023

A handwritten signature in black ink, appearing to be 'Reynaldi', with a stylized, cursive script.

(Reynaldi)

SCIENTIFIC PUBLICATION APPROVAL FOR ACADEMIC INTEREST

As an academic community member of the President's University, I, the undersigned:

Name : Reynaldi
Student ID number : 004201900047
Study program : Industrial Engineering

For the purpose of development of science and technology, certify, and approve to give President University a non-exclusive royalty-free right upon my final report with the title:

**INCREASING PRODUCTIVITY BY INCREASING OVERALL EQUIPMENT
EFFECTIVENESS (OEE) BY IMPROVING THE PERFORMANCE OF HIGH
SPEED DISPERSER MACHINE USING DMAIC METHOD IN PAINT
MANUFACTURER**

With this non-exclusive royalty-free right, President University is entitled to converse, to convert, to manage in a database, to maintain, and to publish my final report. There are to be done with the obligation from President University to mention my name as the copyright owner of my final report.

This statement I made in truth.

Cikarang, May 25th, 2023



(Reynaldi)

ADVISOR APPROVAL FOR JOURNAL/INSTITUTION'S REPOSITORY

As an academic community member of the President's University, I, the undersigned:

Name : Johan Runtuk, S.T.,M.T.

ID number : 0423107302

Study program : Industrial Engineering

Faculty : Faculty of Engineering

Declare that following thesis:

Title of thesis : INCREASING PRODUCTIVITY BY INCREASING
OVERALL EQUIPMENT EFFECTIVENESS (OEE) BY
IMPROVING THE PERFORMANCE OF HIGH SPEED
DISPERSER MACHINE USING DMAIC METHOD IN
PAINT MANUFACTURER

Thesis author : Reynaldi

Student ID number : 004201900047

Will be published in **journal/institution's repository** (underline that applies)

Cikarang, May 25th, 2023



Johan Runtuk, S.T., M.T.

**INCREASING PRODUCTIVITY BY INCREASING
OVERALL EQUIPMENT EFFECTIVENESS (OEE) BY
IMPROVING THE PERFORMANCE OF HIGH SPEED
DISPERSER MACHINE USING DMAIC METHOD IN
PAINT MANUFACTURER**

By

Reynaldi

ID No. 004201900047

Approve by

A handwritten signature in black ink, appearing to be 'JR' followed by a long horizontal stroke and a small circle at the end.

Johan Runtung, S.T., M.T.

Thesis Advisor

A handwritten signature in black ink, appearing to be 'Andira' with a stylized flourish.

Ir. Andira Taslim, M.T

Program Head of Industrial Engineering

SIMILARITY CHECKING RESULT

Final__Report_Reynaldi_After_P
araphrase.pdf
by

Submission date: 28-May-2023 06:27AM (UTC-0500)

Submission ID: 2103584444

File name: Final_Report_Reynaldi_After_Paraphrase.pdf (2.33M)

Word count: 19232

Character count: 98370

Final_Report_Reynaldi_After_Paraphrase.pdf

ORIGINALITY REPORT

12% SIMILARITY INDEX	12% INTERNET SOURCES	2% PUBLICATIONS	1% STUDENT PAPERS
--------------------------------	--------------------------------	---------------------------	-----------------------------

PRIMARY SOURCES

1	repository.president.ac.id Internet Source	11%
2	seps.unsrat.ac.id Internet Source	<1%
3	www.researchgate.net Internet Source	<1%
4	International Journal of Operations & Production Management, Volume 20, Issue 12 (2006-09-19) Publication	<1%
5	Submitted to University of Derby Student Paper	<1%
6	etd.uum.edu.my Internet Source	<1%
7	etd.aau.edu.et Internet Source	<1%
8	Submitted to School of Business and Management ITB Student Paper	<1%
9	Submitted to Sim University Student Paper	<1%
10	Submitted to University of Warwick Student Paper	<1%
11	community.oracle.com Internet Source	<1%
12	ijisrt.com Internet Source	<1%
13	vdocuments.mx Internet Source	<1%
14	industrialengineer.online Internet Source	<1%
15	vdocument.in Internet Source	<1%
16	e-journal.uajy.ac.id Internet Source	<1%
17	www.reliableplant.com Internet Source	<1%
18	Juan Sebastián Bravo-Paliz, Sonia Valeria Avilés-Sacoto. "Characterizing the integration of BRC food safety certification and lean tools: the case of an Ecuadorian packaging company", The TQM Journal, 2022 Publication	<1%

AI BASED PLAGIRISM CHECKING RESULT

Stats

Average Perplexity Score: 111.100

A document's perplexity is a measurement of the randomness of the text

Burstiness Score: 109.712

A document's burstiness is a measurement of the variation in perplexity

Your sentence with the highest perplexity, "*Chapter II Literature Study Lean manufacturing, Six Sigma, DMAIC (Define Measurement Analysis and Improve Control), OEE (overall equipment effectiveness), productivity, six big losses, total productive management (TPM), and cause- and-effect diagrams are all*", has a perplexity of: 418