

FOREWORD

In the name of Allah swt, infinitely Compassionate and Merciful.

All praise is to Allah swt. There is neither might nor strength but from Allah, the Exalted, the Sublime, so I can finished my final report, which written to fulfill requisite to be Bachelor of Industrial Engineering, in Department of Industrial Engineering, Telkom University with title **“SAFETY CLIMATE ASSESMENT BY NORDIC OCCUPATIONAL SAFETY CLIMATE QUESTIONNAIRE (NOSACQ-50) AT PT. X WAREHOUSE DIVISION”**. May peace and blessings be upon the Messenger of God, Muhammad, the Seal of the Prophets, and his purified progeny.

Occupational health and safety is always being important issue in industry, especially in Indonesia. Maintaining the health and safety of the workers is a priority for company, if they want to maintain and increase the competitive advantage of the company. However, awareness of the Indonesian industry to maintain the health and safety aspects is still very low. According to the published data of the Ministry of Manpower and Transmigration in 2014, there were more than 100,000 workplace accidents occurred each year in Indonesia. Compared with other countries (mainly in ASEAN), this accident rate is very high. It needs to be lowered if we want to increase the competitive advantage for the company in Indonesia. Therefore there is a need to improve occupational health and safety management system in Indonesia.

One of the improvements which can do to improve OHS system is applying the concept of safety climate approach. The concept of safety culture and safety climate is new approach which gives different paradigm about causes of occupational accident in company. This approach will lead us into how we implementing and maintain safe behavior at workplace.

I recognize that the completion of this final project involves many support and help from others people in it. Therefore, I would like to thank as much as possible for the people who have helped me in completing this final project:

1. My dearest parents, Fariyono and Endang Fitri Akhiryanti, for all support, the compassion, the patience, and the prayer to give the best for the author.
So then, I will always make you proud of me.
2. My brother, Dito Aryo Prabowo and Danu Pudyo Isworo, for reminders, advice and encouragement which give me a power to complete this final project.
3. Mrs. Mira Rahayu., M.T., as Advisor I, who always giving constructive advice during finishing this Final Project;
4. Mrs. Fida Nirmala Nugraha., M.Psi, as Advisor II, who giving deeper perspective on organizational culture and change topics in this Final Project;
5. Ms. Ilma Mufidah, MT, M.BA for all kindly share about your methods and techniques in assesing safety climate for this Final Project.
6. Mrs. Praty Poeri, M.T and Mr. Teddy Sjafrizal, M.Sc as the Examiner for this Final Project.
7. Mr. Pete Kines, as one of developer of NOSACQ-50 questionnaire, for all help, and suggestion which related to his questionnaire to this Final Project.
8. Mr. Indra, Mr. Yanuar, Mr. Andri and Ms. Kiki, as stakeholders in HSE, HRD and Warehouse division at PT. X, whom give permission to conduct this research at their workplace;
9. Mrs. Amelia Kurniawati, M.T, as Academic Advisor, who has been guiding and directing me for more than 4 years at Telkom University;
10. All inspiring lecturer in Industrial Engineering Faculty, such as Mrs. Dr. Dida Dyah Damayanti, Mr. Rino Andias Anugraha S.T., M.M, Mr. Yusuf Nugroho Doyo Yekti S.T., M.T., Mr. Muhammad Iqbal S.T., M.M, Mr. Teddy Sjafrizal, M.Sc and all of the lecturers who have given me valuable experience and knowledge for my Industrial Engineering basic knowledge.

11. Administrative staff of Industrial Engineering Faculty and the entire *civitas academica* in Telkom University, for helping me during my study.
12. Great group of incredible people whom have vision to the *Jannah* and also has outstanding motivation to do great change (Class 2012-2013 of Sentra Kegiatan Islam IT Telkom, the first generation of Al-Fath Telkom University, FULDKT Indonesia, KMFRI, IKHLAS, and big family of MITI KM 2016). May we meet again in another better place.
13. Big family of Work Design Analysis and Ergonomics Laboratory Telkom University:
 - a. Class of 2011 – *Helios*, (WSD, SEM, IDO, PUS, EPG, OSN, RSY, SLI). Thanks for anything and everything during many years we've through together. *It is time for me to catch up all of you.*
 - b. Class of 2010- *Ranger*, (AKA, DNG, FDS, JCO, AZQ, SKS, JAG, LYA). Thanks for all the guidance, experience, passion, and opportunity that you give me as chance to improve me as a better person.
 - c. Class of 2012 – *Airis*, (KAL, OLI, GIF, DSE, MAC, RIN, IRV, DLA, HAP, NIC). Thank you to for your cooperation, togetherness and patience to help me pass through this Final Project. *You guys, always be my best-ever 'little siblings' that I have proud of, in this campus.*
 - d. Class of 2013 - *Atyanta* (ABE, MAM, LIN, REY, CAY, ICT, HIL, JID, PSY, FAR, UGA, TRO, SCH, SGH, BNE, TRA, RAV, DEB).
14. The first generation of Product Development Laboratory 2011 (RPR, VAN, WSD, HAL, RHB, TED, MON, KZL aka IDO, RZD, UVE, EPG, DTY, ANA, SCM, and AHA). Thanks for your kindness and cooperation while we conducted our last practicum together.
15. All my friends in the TI-35-01 and TI-35-INT class. Thank you very much for your kindness and patience during our study. *I will catch up you soon.*

16. My best friend from the beginning of my study and also accompany me till the end of my Final Project : Haqqy and Rhedo. Thank you for the reminders, togetherness and reminder to then, the after campus life.

17. All parties who can't write one by one, who has been patience to support me till the end.

Hopely this research will increase the area of study related in macroergonomics and occupational health and safety, particularly in Telkom University and in Indonesia.

Bandung, March 4, 2016

Dimas Prabu Tejonugroho