

**IMPROVING QUALITY CONTROL PROCESS AT ASSEMBLY LINE OF  
AUTOMOTIVE FACTORY BY ADDING JOB CARD SUPPORTING  
DOCUMENTS**

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

### IMPROVING QUALITY CONTROL PROCESS AT ASSEMBLY LINE OF AUTOMOTIVE FACTORY, BY ADDING JOB CARD SUPPORTING DOCUMENT

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PT XYZ is a vehicle manufacturing company that focuses on assembling all the parts into one complete vehicle, they did not manufacture the parts, only assemble operations that take place there. Then, one of the problems that faced by the company, that is when inspection workers receive a new job for new model of vehicle especially junior worker, they tend to asking how to do the job to senior worker that is more confident with their works so that productivity is disrupted with existence of these events. These events happened because the lack of documentation within job cards that is used along the assembly operations is existed, thus this project is conducted to reduce and furthermore eliminate the existing problem.

This thesis project solely focuses on developing a supporting document for job card, on the early stage of development, one must find, identify and verify the problem, therefore a methodology of DMAIC from Six Sigma is used in this project. The methodology is divided into five phases: Define, Measure, Analyze, Improve and Control. The deliverables of this project is a supporting document that will completed the existing documents with visualization of the assembly processes.

*Keywords: Job Card, DMAIC, Six Sigma, Mechanical Assembly Operations, Quality Control, Quality Management System.*





## DEDICATION

I dedicate this works for my parents, my beloved brother,  
my loved ones, my friends, myself and future me.



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## TABLE OF CONTENTS

STATEMENT BY THE AUTHOR .....	2
ABSTRACT .....	3
DEDICATION .....	6
ACKNOWLEDGEMENTS .....	7
TABLE OF CONTENTS .....	8
LIST OF FIGURES .....	10
LIST OF TABLES .....	11
CHAPTER 1 - INTRODUCTION .....	12
1.1 Background .....	12
1.2 Research Problem .....	14
1.3 Research Purpose .....	14
1.4 Thesis Scope & Limitations .....	14
1.5 Significance of Study .....	14
1.6 Thesis Organization .....	15
CHAPTER 2 - LITERATURE REVIEW .....	16
2.1 Quality Management .....	16
2.1.1 Quality Planning .....	18
2.1.2 Quality Control .....	18
2.1.3 Quality Assurance .....	19
2.1.4 Quality Improvement .....	21
2.2 Seven Basic Tools of Quality .....	22
2.2.1 Flow Chart .....	23
2.2.2 Ishikawa Diagram .....	23
2.2.3 Checklists .....	23
2.2.4 Pareto Charts .....	24
2.2.5 Histograms .....	24
2.2.6 Scattergrams .....	24
2.2.7 Control Charts .....	25
2.3 Six Sigma .....	25
2.4 DMAIC Methodology .....	26
2.4.1 Define .....	27
2.4.2 Measure .....	27



2.4.3	Analyze.....	28
2.4.4	Improve .....	28
2.4.5	Control.....	29
2.5	Product Liability .....	30
2.5.1	Design Safety .....	30
2.5.2	Prototype Model Approvals.....	31
2.5.3	Customer Satisfaction Program.....	31
2.5.4	Product Safety and Liability Control.....	32
2.6	Job Card.....	32
CHAPTER 3 – RESEARCH METHODOLOGY .....		33
3.1	Introduction .....	33
3.2	Problem Identification .....	35
3.2.1	Define (Phase 1) .....	35
3.3	Literature Review .....	41
3.4	Supporting Documents Development.....	41
3.4.1	Measure (Phase 2) .....	41
3.4.2	Analyze (Phase 3).....	44
3.5	Results and Discussions.....	46
3.6	Conclusion and Recommendation .....	46
CHAPTER 4 – RESULTS AND DISCUSSIONS .....		47
4.1	Improve (Phase 4).....	47
4.1.1	Backup Documents to Support Job Card .....	48
4.1.2	CKD General Information System .....	53
4.1.3	Gap Analysis.....	55
4.2	Control (Phase 5).....	57
CHAPTER 5 – CONCLUSIONS AND RECOMMENDATIONS .....		58
5.1	Conclusions .....	58
5.2	Recommendations .....	59
GLOSSARY .....		60
REFERENCES .....		61
APPENDICES .....		63
APPENDIX A – BACK UP JOB CARD .....		64
APPENDIX B – CONTACT REPORTS .....		130
CURRICULUM VITAE .....		134