

TABLE OF CONTENTS

Original Literary Work Declaration	ii
Abstract	iii
Acknowledgement	viii
Table of Contents	xi
List of Figures	xvi
List of Tables	xviii
List of Symbols and Abbreviations	xx
List of Appendices	xxix
Chapter 1 Introduction	
1.1 Background of Study	1
1.2 Problem Statement	7
1.3 Research Question and Purposes	10
1.4 Description of Research Methodology	12
1.5 Significance of the Study	13
1.6 The Scope of the Study	14
1.7 Contribution of the Study	14
1.8 Organization of Thesis	15
Chapter II: Literature Review	
2.1 Introduction	17
2.2 A Literature Map	22
2.3 Quality Principles	23
2.4 Deming's Principles and Its Development	32
2.4.1 Deming's Principles	32
2.4.2 Quality Management Method	36
2.4.3 Total Quality Management (TQM)	37

2.4.4 Critical Factors of Quality Management Practices as Improvement Strategy Dimensions	42
2.4.5 TQM Implementation and Sustainability of TQM Implementation	54
2.4.5.1 TQM Implementation	54
2.4.5.2 Sustainability of TQM Implementation Program	58
2.5 Critical Factors of Quality Management Practices, Company Performance, and Competitive Priorities	74
2.5.1 TQM Implementation and Company Financial Performance	86
2.5.2 TQM Implementation and Company Non Financial Performance	87
2.5.3 Relationship between Company Financial and Non Financial Performance	88
2.5.4 Mediating Effect of Company Non Financial Performance	89
2.6 TQM and Contextual Factors of an Organization as Mediating Variables	90
2.6.1 Learning Organization	92
2.6.1.1 Best Practices	100
2.6.1.2 Operational Excellence Practice (OE)	101
2.6.2 World-Class Organization	105
2.6.2.1 World-Class Company Practice (WCC)	107
2.7 Summary of the Literature Review	111

Chapter III Research Methodology

3.1 Introduction	112
3.2 Overview of Research Paradigm	113
3.3 Research Design and Method	116
3.4 Research Flow	122
3.5 The Key Research Question	123
3.6 Hypotheses Development and Research Framework	124

3.6.1 Hypotheses Development	124
3.6.1a Critical Factors of Quality Management Practices	124
3.6.1b The Proposed Structural Relations Model	125
3.6.1c Mediation Relationships	126
3.6.2 Research Framework	130
3.7 Research Instrumentation	135
3.7.1 Measurement of Constructs	136
3.7.1a Independent Variables (Six QMPs)	136
3.7.1b Mediating Variables (World-Class Performance in Operations: WCC, OE, and CNFP)	136
3.7.1c Dependent Variable (Company Financial Performance)	139
3.7.2 Questionnaire	142
3.8 Sampling Method	144
3.8.1 Sample	144
3.8.2 Sample Size	144
3.8.3 Sampling Unit	145
3.9 Data Collection Process and Pilot Test	145
3.9.1 Data Collection Process for Quantitative Research	145
3.9.2 Pilot Test	146
3.10 Data Analysis Method Used	148
3.11 Quantitative Data Analysis Procedures	149
3.12 Summary of Research Methodology	159

Chapter IV Results and Finding

4.1 Introduction	161
4.2 Descriptive Characteristics of Respondents	161
4.3 Scale Purification	163
4.3.1 Assessing Multivariate Normality	163
4.3.2 Assessing Multicollinearity	165
4.4 Assessment of Measurement Model Fit	167

4.5	Quantitative Data Analysis: Factor Analyses	170
4.5.1	Factor Analysis for QMPs	170
4.5.2	Factor Analysis (a Second-Order CFA) for WCC	177
4.5.3	Factor Analysis (a First-Order CFA) for OE	180
4.5.4	Factor Analysis (a First-Order CFA) for CFP	183
4.5.5	Factor Analysis (a First-Order CFA) for CNFP	184
4.5.6	Difference in Means	186
4.6	Structural Relationships Model: SEM	189
4.7	Decomposition of Effects in Path Analysis	198
4.8	Summary	200
Chapter V Discussion		
5.1	Summary of Research Findings	202
5.1.1	Summary of Critical Factors of Quality Management Practices	203
5.1.2	Summary of Research Findings	203
5.2	The Main Findings from the Research Hypotheses	205
5.2.1	Critical Factors of Quality Management Practices	205
5.2.2	Structural Relations of TQM Implementation Model	209
5.2.2a	The Relationship between QMPs and WCC	211
5.2.2b	The Relationship between QMPs and OE	212
5.2.2c	The Relationship between WCC and CNFP	212
5.2.2d	The Relationship between OE and CNFP	213
5.2.2e	The Relationship between CNFP and CFP	213
5.2.2f	The Structural Relationships Model and Sustainability of TQM	213
5.2.3	The Mediation of WCC, OE and CNFP	216
5.3	Summary of Findings and Discussions	217
Chapter VI Conclusion		
6.1	Summary of the Study	219

6.2 Conclusion: The Significance of Findings and Contribution of the Study	222
6.2.2 Infrastructure Practices: Supervisor Leadership, Supplier Involvement, Training to Improve Products/Services, Cross Functional among SBUs	225
6.2.3 Core (Value Creation) Practices: Quality Improvement Program and Top Management Commitment	227
6.3 Recommendation: Policy Reflections	231
6.4 Limitation of the Study	233
6.5 Delimitation of the Study	235
6.6 Suggestion for Future Research	236
6.7 Summary of Conclusions	238
Reference	240

LIST OF FIGURES

Figure 2.1 – A Literature Map	23
Figure 2.2 – Deming’s Chain Reaction Theory	36
Figure 2.3 – The Link between Culture, Structure, and Implementation Success	61
Figure 2.4 – Suggestions about Organization Design of Lawrence and Lorsch	63
Figure 2.5 – The Mechanistic Approach	64
Figure 2.6 – The Organic Approach	65
Figure 2.7 – New Paradigm Organizations	92
Figure 2.8 – Value Discipline	104
Figure 2.9 – Six Pillars of World-Class Organization	106
Figure 3.1 – Illustration of Research Scenario for Mixed Method Study	115
Figure 3.2 – Direction of Research Method and Design of the Study	120
Figure 3.3 – Research Flow	123
Figure 3.4 – The Proposed Structural Relations Model	133
Figure 3.5 – The Effect of Quality Performance on Both Customer Satisfaction and Financial Performance	134
Figure 3.6 – The Structural Relations between TQM Practices and Financial Performance with a Mediation of Non Financial Performance	135
Figure 3.7 – The Flow of Data Analysis	148
Figure 4.1 – CFA Model of QMPs	176
Figure 4.2 – The Measurement Model of WCC	179

Figure 4.3 – The Measurement Model of OE	182
Figure 4.4 – The Measurement Model of CFP	184
Figure 4.5 – The Measurement Model of CNFP	186
Figure 4.6 – Initial Model of the Structural Relations of TQM Implementation	191
Figure 4.7 – The Revised (Final) Model of the Structural Relations of TQM Implementation	194
Figure 5.1 – The Research Findings	204