



**HIGHER TECHNICAL INSTITUTE**

**MECHANICAL ENGINEERING  
DEPARTMENT**

**DIPLOMA PROJECT**

**IMPLEMENTATION OF A  
STATISTICAL PROCESS CONTROL  
IN AN INDUSTRY**

**M/848**

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## CONTENTS

<u>TITLE</u>	<u>PAGES:</u>
<u>CONTENTS</u>	II
<u>ACKNOWLEDGEMENTS</u>	V
<u>CHAPTER 1: INTRODUCTION TO THE PROJECT</u>	1
<u>CHAPTER 2: CREATING QUALITY</u>	2
<u>SECTION 1: DEFINITIONS OF QUALITY</u>	2
2.1.1 Customer/Product Services	3
2.1.2 Quality of Design	3
2.1.3 Quality of conformance to design	3
2.1.4 Management Responsibility	4
2.1.5 Historical Background	5
<u>SECTION 2: THE TQM CONCEPT</u>	5
2.2.1 People/culture	7
2.2.2 Systems	8
2.2.3 Tools/Techniques for Quality Improvement	9
<u>SECTION 3: STATISTICAL PROCESS CONTROL</u>	
2.3.1 Introduction	14
2.3.2 Basic Characteristics of SPC	16
Capability Studies	

<b><u>CHAPTER 3: FAMILIARISATION WITH THE COMPANY</u></b>	<b>23</b>
<b><u>SECTION 1: INTRODUCTION</u></b>	<b>23</b>
<b><u>SECTION 2: QUALITY AND QUALITY POLICY</u></b>	<b>23</b>
<b><u>SECTION 3: QUALITY PROCEDURES AND PRACTICE</u></b>	<b>24</b>
3.3.1 Control of Inspection-measuring and test Equipment	24
3.3.2 Control Procedures	24
3.3.3 Inspection and test Status	25
<b><u>SECTION 4: QUALITY MANAGEMENT SYSTEM</u></b>	<b>26</b>
<b><u>SECTION 5: QUALITY PLANNING</u></b>	<b>27</b>
<b><u>SECTION 6: AREA OF IMPLEMENTATION OF SPC</u></b>	<b>27</b>
3.6.1 Introduction	27
3.6.2 Existing Quality Procedures	29
3.6.3 Suggestions for Improvement	29
<b><u>CHAPTER 4: IMPLEMENTATION OF SPC IN</u></b>	
<b>PHOTOS PHOTIADES BREWERIES LTD</b>	<b>31</b>
<b><u>SECTION 1: INTRODUCTION</u></b>	<b>31</b>
<b><u>SECTION 2: CASE STUDY 1</u></b>	<b>31</b>
4.2.1 Implementation of SPC	32
4.2.2 Comments on the Chart Suggestions for Improvement	34

<b><u>SECTION 3: CASE STUDY 2</u></b>	<b>34</b>
<b>4.3.1 Implementation of SPC</b>	<b>34</b>
<b>4.3.2 Comments on the Chart</b>	<b>35</b>
<b>4.3.3 Suggestions for Improvement,         Pareto Chart</b>	<b>35</b>
<b><u>SECTION 4: CASE STUDY 3</u></b>	<b>36</b>
<b>4.4.1 Implementation of SPC</b>	<b>36</b>
<b>4.4.2 Comments of the Chart</b>	<b>37</b>
<b>4.4.3 Suggestions for Improvement,         Pareto Chart</b>	<b>37</b>
<b><u>SECTION 5: CASE STUDY 4</u></b>	<b>39</b>
<b>4.5.1 Implementation of SPC</b>	<b>39</b>
<b>4.5.2 Comments on the Chart</b>	<b>41</b>
<b>4.5.3 Suggestions for Improvement</b>	<b>41</b>
<b><u>CHAPTER 5: FINAL CONCLUSIONS RECOMMENDATIONS</u></b>	<b>42</b>
<b><u>APPENDICES</u></b>	<b>44</b>
<b><u>REFERENCES</u></b>	<b>52</b>

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## **CHAPTER 1**

### **INTRODUCTION TO THE PROJECT**

#### **The Primary Objectives of this Project are:**

1. Study traditional and modern statistical Process Control techniques.
2. Apply these techniques in a manufacturing industry.
3. Analyse the results and suggest ways of improvement of the manufacturing process.

#### **The terms and conditions of the project are:**

1. Follow ISO 9000 quality standards.

Each one of the follow four sections has been designed very carefully so that the reader can focus in any one of the follow general topics.

Chapter 2 is an introduction to quality. Definitions of quality, historical background and concepts of quality are presented.

Chapter 3 is an introduction to the company selected from the author.

The Company's Profile, Quality Policy Management and existing status are briefly discussed and methods of improvement are investigated too.

Chapter 4 is the applying of the techniques that have been study to the company selected. SPC charts are presented and analysed.

Finally, Chapter 5 tells the reader about the overall conclusions of the project. The results of the implementation of SPC and ways of improvement are discussed briefly.