

**ASHER TECHNICAL INSTITUTE**  
**MECHANICAL ENGINEERING DEPARTMENT**

**DIPLOMA PROJECT**

**PRODUCTIVITY IMPROVEMENTS IN  
CYPRUS INDUSTRY**

by  
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**M/79:**

**LINE 1797**

# PRODUCTIVITY IMPROVEMENTS IN CYPRUS INDUSTRY

by

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*To my parents*

## TABLE OF CONTENTS

Acknowledgments	I
Objectives	II
Terms and conditions	II
Summary	III
<b>Chapter 1</b>	
1.0 Introduction	1
1.1 Introduction to productivity	1
1.2 Air conditioning systems	2
<b>Chapter 2</b>	
2.0 Factors leading to low productivity	4
2.1 The profile of the firm	4
2.2 Design and specifications	6
2.3 Space	7
2.4 Inventory	9
2.5 Labour	11
2.6 Capital	12
<b>Chapter 3</b>	
3.0 How to increase the rate of production	13
3.1 Types of production	13
3.2 Model TR360H	16
3.3 Critical Path Analysis (C.P.A.)	17
3.4 Assembly line	27
3.5 Bottleneck	33
3.6 Bill - of - Materials (BOM)	35
3.7 Material Requirement Planning (MRP)	38

## **Chapter 4**

4.0	Production Economics	42
4.1	Costs in manufacturing	42
4.2	Cost of equipment usage	44
4.3	Break - even analysis	46
4.4	Unit cost of production	50
4.5	Value added	53

## **Chapter 5**

5.0	Other General Solutions	55
5.1	Plant layout	55
5.2	Just - in - Time (JIT) Production	59
5.3	Personnel policy	60
5.4	Education and Training	61

## **Chapter 6**

6.0	Conclusions	63
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## **References**

## **Appendices**

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### OBJECTIVES

- 1.To carry out a study of the productivity in a specific area in a manufacturing industry.
- 2.To recommend suitable productivity improvements.
- 3.Comment on the results.

### TERMS AND CONDITIONS

- 1.The study should be carried out in a real Industrial situation.
- 2.The student has to spend at least three weeks at the place of study.

## SUMMARY

### PRODUCTIVITY IMPROVEMENT IN CYPRUS INDUSTRY

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The main objective of this project was to study the productivity improvement in a Cyprus Industry.

An introduction to basic productivity terms was made at the beginning, as well and some information about air conditioning systems.

Then, major factors contributing to low productivity were analyzed in depth. These are, Design and Specifications, Space, Inventory, Labour and Capital.

Furthermore, solutions to the above problems was attempted to be given through a certain model.

At first, management techniques were applied to increase the rate of production. By applying C.P.A. it has been achieved a small increase of production with no additional costs. Then a dramatic increase to the rate of production was achieved by creating an assembly line, for the model under study, and by investing a low level capital for new equipment.

Then B.O.M. and M.R.P. were applied to the model in order to have better inventory control.

Production Economics have been used in order to estimate the cost of new equipment usage, as well as to estimate the production output required to cover the investment.

In addition, management techniques were applied to give solutions concerning problems such as space and labour. JIT was proposed as an alternative solution for inventory control.

Finally, in the conclusions a description of the work done and its usage was made.