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MECHANICAL ENGINEERING DEPARTMENT

DIPLOMA PROJECT

IMPLEMENTATION OF QUALITY CONTROL
PROCEDURES IN A PLASTO INDUSTRY

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IMPLEMENTATION OF QUALITY CONTROL PROCEDURES IN A PLASTO INDUSTRY

by

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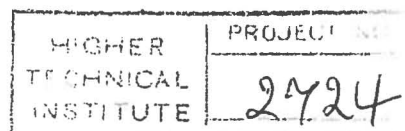
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ABSTRACT

The object of this project was the implementation of quality control procedures in a plasto industry.

The project was carried out in Papadopoulos Plastics Ltd. This company deals with the production of plastic bags and plastic film.

The whole content of the project is divided in to chapters and three appendices.

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IMPLEMENTATION OF QUALITY CONTROL PROCEDURES IN A PLASTO INDUSTRY

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SUMMARY

The main objective of this diploma project was to study in detail the theory on quality control, to investigate the quality control procedure's and methods in a plasto industry and suggest method of improvement of the existing quality practices. Also to carry out sampling measurements in order to test the effectiveness of the suggested techniques, to measure the process, capability of the process and test whether the process is in control or not by the use of various statistical process control charts. Finally to carry out an economic comparison between the existing and proposed quality control procedures and techniques.

The project is divided into 9 chapters.

- In chapter 1 an introduction to quality control is made.
- Chapter 2 is an introduction to SPC.
- In chapter 3 the existing process flow in the Plastro industry is given.
- In chapter 4 quality control procedures in Plastro industry are explained.
- In chapter 5 suggestions for improvement of the existing quality control practices are carried out.
- In chapter 6 the theory on SPC charts is explained.
- In chapter 7 SPC charts implemented during the production process.
- In chapter 8 the costs of the suggested improvements are defined.
- In chapter 9 conclusions of the project are carried out.