

DEVELOPMENT OF QUALITY CONTROL PROCEDURES
IN A METAL WORKING INDUSTRY

by

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Project Report

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SUMMARY

The object of this project was to investigate quality control procedures and techniques in a metal working industry.

The industry was specified to be Nemitsas Industries Ltd. This industry has a large output due to its availability of automatically computerised machines. The products that this industry produces are building machinery and turbines-pumps and the most of its exports are to the Middle East.

The whole content of the project is divided into six main chapters.

In the first chapter an introduction to quality control is carried out.

In the following chapter a study is carried out on Statistical Quality Control.

In the third chapter an investigation of the quality control procedures and methods at a factory is carried out and also suggestions of methods for improvement. This investigation is only for the machining department.

Chapter four includes inspection and testing by variable and attribute sampling. The British Standards are used for this procedure.

In the following chapter a process capability study is included for variable and attribute scheme, concluding tables, control charts.

For the final stage a comparison is made between the existing and proposed quality control procedures and techniques including all quality cost categories.

Tables and drawings of the products are included in the appendices and reference to them is given within the main content.

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