

QUALITY CONTROL IN A METAL WORKING INDUSTRY

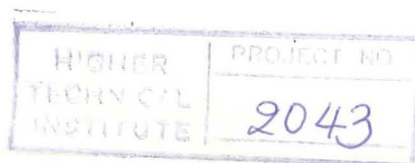
Project Report Submitted by

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ABSTRACT

The object of this project is to study the statistical quality control theory, to investigate the quality control procedures used in a metal working industry and to design quality control practices by selecting a specific production line. Also the effectiveness of the methods should be tested by sampling measurements and the process capability of the processes should be measured. The industry was specified to be VIOMETAL LTD.

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

In the first chapter the theory on quality control is studied. Basic concepts of statistical quality control are explained.

In chapter two an investigation of the quality control procedures and methods used in VIOMETAL LTD is carried out. Also specific products are selected and methods of improvement on the existing quality control practices are suggested.

In chapter three sampling measurements are carried out in order to test the effectiveness of the suggested techniques, by using various charts.

In chapter four the process capability of the process is measured by:

- (a) variable data
- (b) attribute data

In chapter five an economic comparison between the existing and proposed quality control procedures and techniques, is carried out.

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