UNIVERSITY OF NOTTINGHAM

The analysis of batch processing industry characteristics and the evaluation of MRP-II suitability in this context

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Declaration of Originality

Title of Dissertation

The Analysis of batch processing industry characteristics and the evaluation of MRP-II suitability in this context

This dissertation has been written by me. Material from any outside source which I have used directly or indirectly is acknowledged accurately and I have made clear the extent to which it has been used.

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Signed:

Dated: 24 September 1996
Abstract

This project is initiated due to the major problems of MRP II installation fail in the world wide. Almost 80% failure are reported. However, these problems seem can not be solved easily.

Besides that, my previous working experience in computer consulting firm and a multi-national food manufacturing company in where my responsibility is to assist them selecting a process MRP-II has given me a great deal of valuable personal experience and comment on the in the computer company software as well as the weaknesses of the user company operations.

From the analysis result, the major cause is mainly the lack of understanding business environment in detail. Therefore, the aim of this dissertation is to explore the characteristics of different major batch industries and then evaluation is carried out on the MRP II suitability in this context.

Finally, practical and real industries discussion are the main focus of this project for the need of the industries manager who intend to seek the MRP II software as well as the importance source for the vendors who need to understand the characteristics of each different batch industries.
Acknowledgments

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Chapter I

General description of various industries classification and detail analysis on batch processing industries characteristics


Chapter 1

General description of various industries classification and detail analysis on batch processing industries characteristics

1.1 Introduction

Competitive pressures and changing industry dynamics have forced a number of new strategic imperatives on manufacturers. High competition especially in the world market has forced the top management in most organization to consider more advance technology in order to keep in pace with the world business trend and competition.

For instance, Manufacturing Resource Planning (MRPII) has been widely used by most organizations as an important tool to enhance their management and increase productivity which cover all main business functions.

However, understanding the full operation of an organization is not an easy task. Furthermore, it is much complex (so many types of industries) and a lot of internal and external factors which are always influence the success or failure of an organization. This is the major drawback for implementing a good MRP II system and thus a lot of organizations encounter a lot of failure implementing such a complex computerized system.

Therefore, the main purpose of this project is to analyze in depth the characteristics of each batch industry in order to justify their suitability before purchasing any MRP II software.

1.2 Objectives of this Project

The reasons of initiate this project are:-

. MRP II has been a long time in the market, yet its failure story still a major problems. However, most literature report has blamed the failure caused by the end user. Therefore, this report hope to provide a fair judgment and evaluation on both parties and identify the causes which bring the MRP II failure.

. there is still a lack of a proper solution and theories which can really help the needs of different industries problems, requirements, etc. In others word, most research theories are not able to solve the real business environment.

. industry managers has difficulty to apply the theories in their own business environment. Most of the discussion on papers or academic knowledge are too general and is very hard for them to implement. Some is too complex, especially a lot of calculation which is very hard for a managers to understand and apply.

. Most academic researcher, computer profession has a lack of exposure to real business environment. As a result, quite a number of software installation are fail or most theories findings are not realistic. In other words, they do not know exactly the need of each industry requirements and its problems.

. Much of the solutions are discuss in an island method or specific area such as inventory management or financial costing, etc. which do not involve the whole business functions organization as a perspective. Thus, it still cause a lack of integrity among departments and could cause the major problems during the implementation of MRP II which required a great degree of integration and understanding among departments.
The contents of the thesis is for internal user only


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