

ACD - 8561
1988 - 2/8/88

Participative Problem Solving Towards Continuous Improvement:

A Case Study of Motorola (M) Sdn. Bhd.

BY

FURAI DAH MOHAMED YUSOF

Bachelor of Science Degree in Electrical Engineering

University of Illinois at Chicago

1988

Submitted to the Faculty of

Business and Accountancy

University of Malaya

in partial fulfillment of

the requirements for

the Degree of

MASTER OF BUSINESS ADMINISTRATION

March, 1997

Perpustakaan Universiti Malaya



A507345733

ABSTRACT

In the 1980s when the QCC concept was first introduced in the local organizations, many considered it as a management fad. Today, however the success from those that have implemented the concept have convinced, others in the private and public sectors to adapt it too.

This research examines the adaptation of the QCC concepts to the current organizational scenario. A case study which involved a manufacturing company, Motorola (M) Sdn. Bhd. was conducted to examine the various aspects of participative problem solving and its contribution towards continuous improvement. Each element of the QCC was investigated in terms of how it had been used differently in the 1990's especially in the framework of Total Quality Management.

A survey is utilized to gain insights on the PPS activities from the organization. Interviews with some key personnel to evaluate the benefits and the implications of the PPS activities to the overall performance of the organization, as well as feedback from the experiences from the team members were obtained.

The survey results seemed to suggest that the basic concepts of QCC are applicable in organizations of the 1990's and beyond. However, some adaptation would be required to meet the demands of the current organizational scenario. The increased level of empowerment, mobilization of people at all levels and the trend to cross departmental boundaries are some of the new features of the team environment that must be considered in this era. Results from the survey showed that the Participative Problem Solving teams at Motorola (M) Sdn. Bhd. look forward to solving more complex problems, in line with the continuous improvement concept of the TQM framework.

The effectiveness of the PPS programs in meeting the organization's tangible and intangible objectives was affirmative. The benefits that the employees and management received tend to indicate that the PPS activities should be adopted company wide. However for optimum results some improvements were recommended so that it will bring more benefits to Motorola in the future.

The findings of this study, would also benefit other organizations in the manufacturing industry which may be interested in organizing similar teams.

ACKNOWLEDGMENT

There are several people I would like to thank for giving me their support , encouragement, and constructive criticism, without whom this research would not have been possible.

Firstly, I would like to express a very special thanks to my supervisor, Puan Angeline Teo, who has dedicated her time in guiding me through the research process until the successful completion of the study.

My thanks goes to the Employee Development Department of Motorola namely, Encik Kamarul Ariffin and Miss Irene Wong who have helped me in obtaining the relevant information needed for the research.

A special word of thanks to the management of Motorola (M) Sdn. Bhd. for allowing me to pursue this research.

To all the participants of the survey and interviews, without whom, this study is impossible, I sincerely thank you.

My foremost gratitude goes to a very special person, Edward Chua, for his constant motivation and encouragement throughout my MBA course .

Last but not least, my sincere appreciation goes to my loving family for their relentless support, encouragement and strength to pursue all my hopes and dream.

Table of Contents

Chapter	Page
I. Introduction	
Background.....	1
Scope of Study	4
Study Objective	5
Significance of Study.....	5
Research Design & Methodology.....	6
Organization of the Report.....	8
II. Literature Reviews	
History of Quality Control Circle (QCC).....	10
Philosophy and Principles of QCC.....	13
III. QCC Within a TQM Framework	
QCC as Continuous Improvement Tool.....	21
QCC and Employee Involvement	24
QCC in the 1990's and Beyond	30
IV. Motorola (M) Sdn. Bhd.	
Background.....	31
History of Participative Problem Solving (PPS).....	32
PPS Organization and Activities	33
Problem Solving Stages	37
V. Analysis of Result	
General Characteristics of Members.....	40
An Overview of PPS Attributes	42
VI. Summary and Conclusion	
Overview of the study	58
Summary of Research Results.....	59
Team Formation.....	59
Level of Participation.....	60
Difficulties Faced by the Team	61
Management Support	61
Perpetuating PPS Efforts	63
Tangible & Intangible Benefits	63
Implications of the Study.....	64
Limitations of the Study.....	67
Recommendations for Future Research	68
Bibliography	69
Appendices	
Appendix A:Survey Questionnaire (English).....	73
Appendix B:Survey Questionnaire (Bahasa Malaysia).....	77

List of Tables

Table	Page
1. General Characteristics of Respondents.....	41
2. Role of Respondents in PPS.....	42
3. Reasons for Participation in PPS.....	42
4. Team Characteristics	43
5. Departments Represented by Members	44
6. Types of Problems Solved By Teams.....	44
7. How Was Team Formed?.....	45
8. Characteristics of Meetings Held by PPS Teams.....	45
9. When Do Teams Hold Their Meetings?.....	46
10. Members' Attendance Level	46
11. Reasons for Low Attendance	47
12. Training Attended by Members.....	47
13. Problem Solving Tools Used By PPS Teams	48
14. Problems Encountered By Teams	48
15. Opinion On the PPS Guidebook	49
16. Level of Participation	50
17. Management Attendance in Team's Meetings	50
18. Participation In Internal and External Presentations	51

19. Perception of Respondents on Management Support	51
20. Who Do Teams Refer to for Help.....	52
21. Level of Empowerment Given.....	53
22. Types of Decision Empowered to Teams	53
23. Perception on Rewards.....	54
24. Perceptions on Evaluation Criteria of PPS Teams	54
25. Ways to Prolong the Lifecycle of PPS Teams.....	55
26. Benefits of PPS to The Individuals	55
27. Benefits to The Organization Gained from PPS.....	56
28. Key Differences Between Traditional & Empowered Team Organization	66