

UNIVERSITI PUTRA MALAYSIA

CUSTOMER AND EMPLOYEE SERVICE QUALITY MANAGEMENT IN THE AIRLINE INDUSTRY

CESSIE SYLVIA PETCHI

GSM 2003 2

CUSTOMER AND EMPLOYEE SERVICE QUALITY MANAGEMENT IN THE AIRLINE INDUSTRY

By CESSIE SYLVIA PETCHI

Thesis Submitted to the Graduate School of Management, Universiti Putra Malaysia, in partial Fulfillment of the Requirements for the Degree of Master Science

December 2003



Abstract of thesis presented to the Senate of Universiti Putra Malaysia in partial fulfillment of the requirement for the degree of Master of Science

CUSTOMER AND EMPLOYEE SERVICE QUALITY MANAGEMENT IN THE AIRLINE INDUSTRY

By

CESSIE SYLVIA PETCHI

December 2003

Chairman: Raduan Che Rose, Ph.D

Faculty: Graduate School of Management

Fierce competition has raised standards leading customers to expect higher standards of service, and customers are ideal for appraising how well employees have provided quality service because they interact directly with the employees. Quality of service in the airline also depends greatly on the quality of the employees, as dissatisfied employees would not perform a service at the required level, and this would affect the service delivery

This study examined the customers' perceptions and expectations of service quality, and the service-performance gap that measures the employees' job satisfaction in Singapore Airlines (SIA) and Malaysia Airlines (MAS), to reveal the status of the level of service quality as perceived by their customers (customers' satisfaction). as well as the level of employees job satisfaction in each company

The SERVQUAL questionnaire comprising of five major service quality dimensions (tangibility, reliability, responsiveness, assurance, and empathy) was used to



measure the customers' perceptions of service quality, and a total of 200 customers from each airline company were approached. The employees' perceptions of job satisfaction were measured through a service quality questionnaire developed by Parasuraman *et al.*, (1998), that addresses the seven key contributing factors (teamwork, employee job-fit, technology job-fit, perceived control, supervisory control systems, role conflict, and role ambiguity) that affects the job performance. The total population of the employees of SIA (60 employees), and 83 employees from MAS answered the job satisfaction questionnaires.

The findings revealed that the customers' perceptions of service quality in S1A, in the responsiveness dimension match their expectations, indicating that the level of quality in this particular dimension is excellent. However, S1A and MAS had exceeded their customers' expectations in the tangibility dimension. In S1A, responsiveness dimension was found to be the most important factor influencing customers' satisfaction, followed by empathy and tangibility. In MAS, empathy was found to influence the customers' perceptions, followed by assurance, responsiveness, and reliability. By measuring the employees' performance gap, role conflict was found to affect the employees' job satisfaction in S1A, while role conflict and role ambiguity were found to affect the employees job satisfaction in MAS, indicating a need to reduce the occurrence of these factors in order to increase the employees' job satisfaction.

This study suggests that the management of both the airline companies work towards improving their services in all the dimensions of service quality, and



monitor the employees' work development, as it is vital for any company to continually monitor their performance in order to excel in a competitive environment. Even though both companies are recognized for their excellent service, there will always be room for improvement, as the environmental change does affect the performance of a company.



Abstrak tesis yang dikemukakan kepada Senat Universiti Putra Malavsia sebagai memenuhi sebahagian keperluan untuk ijazah Master Sains

PENGURUSAN SERVIS KUALITI PARA PELANGGAN DAN KAKITANGAN DALAM INDUSTRI PENERBANGAN

Oleh

CESSIE SYLVIA PETCHI

Disember 2003

Pengerusi: Raduan Che Rose, Ph.D.

Fakulti:Sekolah Pengajian Siswazah Pengurusan

Persaingan hebat dalam industri pengangkutan udara telah meningkatkan ekspektasi para pelanggan, dan para pelanggan adalah ideal dalam menilai perkhidmatan yang diberikan oleh kakitangan sesebuah syarikat penerbangan kerana mereka berinteraksi secara langsung dengan kakitangan tersebut. Kualiti sesebuah syarikat penerbangan juga bergantung kepada kualiti kakitangan mereka. Ini adalah kerana kakitangan yang tidak puas hati dengan kerja mereka, tidak akan menjalankan tugas mereka pada tahap yang dunginkan, dan ini akan menjejaskan kualiti perkhidmatan syarikat tersebut.

Kajian mi telah menyelidik ekspektasi dan persepsi para pelanggan terhadap perkhidmatan yang diberikan, serta perspesi kakitangan tentang kepuasan pekerjaan mereka di Singapore Airlines (SIA) dan Malaysia Airlines (MAS), untuk menunjukkan status kualiti perkhidmatan dari sudut kepuasan pelanggan, serta tahap kepuasan kakitangan kedua-dua buah syarikat tersebut.



Kajian soal selidik SERVQUAL yang mengkaji lima dimensi utama kuaitu perkhidmatan telah digunakan untuk menyoal seramai 200 para pelanggan dari SIA dan MAS masing-masing. Persepsi kakitangan tentang kepuasan yang dinikmati dalam pekerjaan mereka telah dikaji menggunakan soal selidik yang direka khas oleh Parasuraman *et al.*,(1998) untuk menilai kepuasan kakitangan sesebuah syarikat. Seramai 60 kakitangan SIA, dan 83 kakitangan MAS telah dirujuk untuk menjawab soal selidik tersebut.

Hasil kajian ini menunjukkan bahawa para pelanggan SIA amat berpuas hati dengan perkhidmatan yang diberikan dalam dimensi 'responsiveness. Satu kesamaan yang dijumpai adalah, para pelanggan SIA dan MAS amat berpuas hati dengan perkhidmatan yang diberikan dalam dimensi 'tangibility. Bagi SIA, dimensi yang paling penting dalam mempengaruhi persepsi para pelanggan adalah 'responsiveness', diikuti dengan 'empathy' dan 'tangıbility'. Bagı MAS pula, dimensi 'empathy' merupakan faktor yang paling penting dalam mempengaruhi perspesi para pelanggan, diikuti dengan 'assurance', 'responsiveness', dan 'reliability'. Kajian kepuasan kakitangan membuktikan bahawa faktor 'role conflict' mempengaruhi kepuasan kakitangan SIA, manakala 'role conflict' dan 'role ambiguity' mempengaruhi kepuasan kakitangan MAS. Oleh kerana itu, kekerapan kedua-dua faktor tersebut harus dikurangkan supaya kepuasan kakitangan dapat ditingkatkan.

Kajian ini megesyorkan bahawa SIA dan MAS perlu meningkatkan perkhidmatan mereka dalam semua dimensi, kerana adalah penting bagi sesebuah syarikat untuk

mengawasi dan meningkatkan prestasi mereka untuk mencapai kecermerlangan dalam sebuah undustri yang sering bersaing. Walaupun SIA dan MAS terkenal kerana kecermerlangan dalam perkhidmatan mereka, kajian ini membuktikan bahawa adanya peluang untuk meningkatkan perkhidmatan mereka.



ACKNOWLEDGEMENTS

First and foremost, I would like to thank God for blessing mc with the opportunity to pursue my Masters, and most of all for being my guide and strength in producing this thesis. I faced many trials and challenges throughout these two years, but somehow I have managed to overcome it, and I owe my heartfelt gratitude to my Lord, Jesus Christ, for without Him, I could not have come this far.

I am indeed very grateful to each and every one of my family members, for supporting my interest to pursue my Masters, and for their constant love and support. A big thank you to my Dad for instilling a need to pursue my studies to the highest level as possible ever since I was young, to achieve excellence in my studies, and most of all for supporting my studies despite the challenges you faced. Thank you, Mom, for your constant prayers and interest in my progress, your advice, as well as listening to the problems I faced during these two years. I would also like to thank my brothers, Christopher, Gordon, for your interest in my studies. Ronald, and Cellent, thank you for sending me to campus whenever you could, and for the use of your car to travel to campus, for making sure the computer is functioning so that I could do my work, for and most of all for your constant love and support.

My sisters, Christine, and Sarah, my cousin Jen and Richard, thank you for continually inquiring about my studies, and for making sure I complete my work in time. My sister, Vivien, thank you very much for your support, and for helping me print out all my work, no matter how many times I make you do it. Nigel, thank you very much for printing the final copy of my thesis. Manesah, thank you too for your great help. I would also like to thank my fellow supervisors, Dr. Raduan and Dr. Murali, for their guidance and advice. for helping me out with my thesis, and also for making sure I produce a complete and fine work. A big thank you to the manager of SIA and MAS for permitting me to conduct my survey in the airport, which was the main ingredient of my study.

I would also like to thank my friends who have helped me in one way or another. Thank you Neela, for being a great friend and course mate, and of course for your continuous support. I am so grateful to have you to share my ups and downs with, as having a great friend with me really helped me pull through those trying times. And of course I would have been so bored without you. I would also like to thank your sisters; Sham and Nimi, and your mom (Aunty Saro) for their prayers, interest and support in our thesis. Sajeeta, thank you for your help and advice.

Thank you Robina, and mom (Aunt Maria), for helping me out with my work, and for your prayers. Olive, thank you too for your help and support. I would like to thank my fellow housemates; Baby, Usha, Nals, Yogi, Vani, for your company and support. Not forgetting Don, for listening to my problems. for your advice and words of encouragement, for your support and help for printing out my work. Thank you Morton and Jeremy, for your support and help too. A big thank you to Aunty Radha, for your interest in my studies too.



Most of all, I would like to thank Shan, for his continuous love and support. for his encouraging and motivating words, and most of all for standing by me throughout my studies. Thank you for pushing me to work harder and for your constant interest in my progress. Thank you for your faith in me; it has helped me realize my capabilities and motivated me to strive to reach the top in everything I do. Thank you so much for helping me out in my work, for listening to the challenges I faced, and for constantly offering words of comfort, and thank you for all that you have done. I am very much blessed to have you, my family, and friends in my life. Thank you everyone, even those whom I did not mention, thank you so much for everything.



TABLE OF CONTENTS

ABSTRACT	ii
ABSTRAK	\
ACKNOWLEDGEMENTS	V 111
APPROVAL	M
DECLARATION	XIII
LIST OF TABLES	xiv
LIST OF FIGURES	xix

CHAPTER

I

INTRODUCTION	1
Background of Study	1
Global Overview of the Airline Industry	4
Globalization and the Trend of Airline Alliances	6
Asia Pacific's "brand" and Major Alliances	7
"Brand" and Differentiation-based Strategy	7
Why The Airline Industry?	8
Background of Singapore Airlines and Malaysia Airlines	9
Overview of Singapore Airlines	10
History of Singapore Airlines	10
Equity Partners	11
Star Alliance Information	13
Excellence Across The Continents	14
Business Travel Activities	14
The Growth of Singapore Airlines (SIA)	15
Overview of Malaysia Airlines	20
History of Malaysia Airlines (MAS)	20
Code Sharing	22
Business Travel Activities	23
The Growth of Malaysia Airlines	24
Problem Statement	27
Objectives of Study	31
General Objective	31
Specific Objectives	32
Significance of Study	33
Hypotheses	37
Organization of Thesis	39



LITERATURE INTERVIEW	41
Introduction	41
Perceived Quality	43
Customers' Perceptions of Service Quality	44
Customers' Expectations of Service Quality	46
Characteristics of Service	47
Definition of Service and Service Quality	48
The Conceptual Model of Service Quality	51
Major Service Quality Dimensions	53
Measuring Service Quality	56
Previous Studies of Service Quality in the Airline Industry	57
Linking Service Quality between Internal	61
and External Customers	
Association Between Employees' and Customers' Perception	62
Linking Employee Satisfaction to Customer Satisfaction	64
Linking Service Quality to Employee Satisfaction	64
Internal Marketing	65
Service Employees as Determinants of Service Quality	66
"Moments of Truth"	69
Pivotal Role of Employees	71
The Customer-Oriented Organization	74
Human Resource Management and Service Quality	75
Empowerment for Service Quality	78
Conclusion	79

II

III	RESEARCH METHODOLOGY AND ANALYSIS	81
	Introduction	81
	Conceptual Model	81
	Theoretical Framework	86
	Research Framework	91
	Data Collection Method	92
	Data Collection Strategy	93
	The Questionnaire as a Measuring Instrument	93
	The Questionnaire Design	95
	Variables and Data Measurement Scale	100
	The Nominal Scale	100
	The Ordinal Scale	101
	The Interval Scale	101
	Pilot Study	102
	Data Collection Process	103
	Location and Source of Respondent	104
	Sampling Process	105
	Sampling Method	106
	Respondent Size and Sample Size	106
	Results of Primary Data Collection	108
	Methods of Data Analysis	110



	Data Analysis and Interpretation	110
	Reliability Analysis	111
	Validity Analysis	114
	Descriptive Statistics	117
	Inferential Statistics	117
	Conclusion	118
IV	DATA ANALYSIS, INTERPRETATION,	120
	FINDINGS AND DISCUSSIONS	
	Introduction	120
	Feel for Data	121
	Customers' Background Information	121
	Frequency Output for Customers of Singapore Airlines (SIA)	121
	Frequency Output for Customers of Malaysia Airlines (MAS)	125
	Employees' Background Information	129
	Frequency Output for Employees of	129
	Singapore Airlines (SIA)	127
	Frequency Output for Employees of	132
	Malaysia Airlines (MAS)	152
	Customers' and Employees' Perception of Satisfaction	134
	Descriptive Statistics: Measures of Central Tendency	134
	and Dispersion	
	Hypotheses Testing	139
	Findings and Discussions	161
	Customers' Satisfaction of the Service Quality	161
	Quality of Service Along Each Dimension	164
	Employees' Level of Job Satisfaction (Service-Performance Gap)	169
	Findings from Hypotheses Testing	174
	Conclusion	181

CONCLUSION AND RECOMMENDATIONS	183
Introduction	183
Suggestions for Improvements	183
Customers' Satisfaction	183
Employees' Satisfaction	185
Limitations of Study	189
Implications for Future Research	191
Conclusion	192
	Introduction Suggestions for Improvements Customers' Satisfaction Employees' Satisfaction Limitations of Study Implications for Future Research



LIST OF TABLES

Table		Page
Table 1 1	Awards Bagged By SIA (2001-2002)	19
Table 1 2	Awards Bagged By MAS (2000-2002)	27
Table 3.1	Definitions of the Key Contributing Factors to Gap 3	84
Table 3.2	Service Quality Dimensions and their Definitions	84
Table 3.3	Items of Customers' Satisfaction Questionnaire	97
Table 3.4	Items of Employees' Satisfaction Questionnaire	100
Table 3.5	Number of Respondents Approached	109
Table 3.6	Reliability Coefficients for the Dimensions Measuring Customers' Expectations and Perceptions of Service Quality in Singapore Airlines (SIA)	112
Table 3.7	Reliability Coefficients for the Dimensions Measuring Customers' Expectations and Perceptions of Service Quality in Malaysia Airlines (MAS)	113
Table 3 8	Reliability Coefficients for the Dimensions Measuring Employees' lob Satisfaction in Singapore Airlines (SIA)	113
Table 3 9	Reliability Coefficients for the Dimensions Measuring Employees' Job Satisfaction in Malaysia Airlines (MAS)	114
Table 3.10	Root Mean Square Error of Approximation (RMSEA) and Goodness of Fit Index (GFI) for the Dimensions Measuring Customers' Expectations and Perceptions of Service Quality in Singapore Anlines (SIA)	115
Table 3 1 1	Root Mean Square Error of Approximation (RMSEA) and Goodness of Fit Index (GFI) for the Dimensions Measuring Customers' Expectations and Perceptions of Service Quality in Malaysia Airlines (MAS)	115
Table 3 12	Root Mean Square Error of Approximation (RMSEA) and Goodness of Fit Index (GFI) for the Dimensions Measuring Employees' lob Satisfaction in Singapore Autimes (116 SIA)



Table 3.13	Root Mean Square Error of Approximation (RMSEA) and Goodness of Fit Index (GFI) for the Dimensions Measuring Employees' Job Satisfaction in Malaysia Airlines (MAS)	116
Table 4.1	Gender of Customers (SIA)	121
Table 4.2	Age of Customers (SIA)	121
Table 4.3	Education of Customers (SIA)	122
Table 4.4	Marital Status of Customers (SIA)	122
Table 4.5	Citizenship of Customers (SIA)	122
Table 4.6	Customers' Frequency of Travel (SIA)	123
Table 4.7	Customers' Class of Travel (SIA)	123
Table 4.8	Customers' Purpose of Travel (SIA)	124
Table 4.9	Occupation of Customers (SIA)	124
Table 4.10	Customers' Reasons for Flying with SIA	124
Table 4.11	Gender of Customers (MAS)	125
Table 4.12	Age of Customers (MAS)	125
Table 4.13	Education of Customers (MAS)	126
Table 4.14	Marital Status of Customers (MAS)	126
Table 4.15	Citizenship of Customers (MAS)	126
Table 4.16	Customers' Frequency of Travel (MAS)	127
Table 4.17	Customers' Class of Travel (MAS)	127
Table 4.18	Customers' Purpose of Travel (MAS)	127
Table 4.19	Occupation of Customers (MAS)	128
Table 4.20	Customers' Reasons for Flying with MAS	128
Table 4.21	Gender of Employees (SIA)	129



Table 4.22	Age of Employees (SIA)	129
Table 4.23	Education of Employees (SIA)	129
Table 4.24	Marital Status of Employees (SIA)	130
Table 4.25	Employees' Position In Company (SIA)	130
Table 4.26	Employees' Level of Income (SIA)	131
Table 4.27	Employees' Length of Association (SIA)	131
Table 4.28	Race of Employees (SIA)	131
Table 4.29	Gender of Employees (MAS)	132
Table 4.30	Age of Employees (MAS)	132
Table 4.31	Education of Employees (MAS)	132
Table 4.32	Marital Status of Employees (MAS)	133
Table 4.33	Employees' Position In Company (MAS)	133
Table 4.34	Employees' Level of Income (MAS)	133
Table 4.35	Employees' Length of Association (MAS)	134
Table 4.36	Race of Employees (MAS)	134
Table 4.37	Customers' Perception of Service (SIA)	135
Table 4.38	Customers' Perception of Service (MAS)	136
Table 4.39	Employees' Perception of Job Satisfaction (SIA)	137
Table 4.40	Employees' Perception of Job Satisfaction (MAS)	138
Table 4.41	Class of Travel (Customers of SIA)	141
Table 4.42	LSD Test	141
Table 4.43	Frequency of Travel (Customers of SIA)	142
Table 4.44	LSD Test	142
Table 4.45	Class of Travel (Customers of MAS)	144



Table 4.46	LSD Test	144
Table 4.47	Age (Employees of SIA)	146
Table 4.48	LSD Test	147
Table 4.49	Length of Association (Employees of SIA)	148
Table 4.50	LSD Test	149
Table 4.51	Model Summary (Employees of SIA)	152
Table 4.52	Employees of SIA	152
Table 4.53	Co-efficient Test	153
Table 4.54	Model Summary (Employees of MAS)	155
Table 4.55	Employees of MAS	155
Table 4.56	Co-efficient Test	156
Table 4.57	Model Summary (Customers of SIA)	157
Table 4.58	Customers of SIA	158
Table 4.59	Co-efficient Test	158
Table 4.60	Model Summary (Customers of MAS)	159
Table 4.61	Customers of MAS	160
Table 4.62	Co-efficient Test	160
Table 4.63	Output 1(a)	204
Table 4.64	Output 1(b)	204
Table 4.65	Output 2(a)	205
Table 4.66	Output 2(b)	205
Table 4.67	Output 3(a)	205
Table 4.68	Output 3(b)	206
Table 4.69	Output 4(a)	206



Table 4.70	Output 4(b)	206
Table 4.71	Output 5(a)	207
Table 4.72	Output 5(b)	207
Table 4.73	Output 6(a)	207
Table 4.74	Output 6(b)	208
Table 4.75	Output 7(a)	208
Table 4.76	Output 7(b)	209
Table 4.77	Output 8(a)	209
Table 4.78	Output 8(b)	210
Table 4.79	Output 9(a)	210
Table 4.80	Output 9(b)	210
Table 4.81	Output 10(a)	211
Table 4.82	Output 10(b)	211
Table 4.83	Output 11(a)	212
Table 4.84	Output 11(b)	212
Table 4.85	Output 12	213
Table 4.86	Output 13	214
Table 4.87	Output 14	215
Table 4.88	Output 15	216



LIST OF FIGURES

Figure / Exhibit		Page
Figure 3.1	Internal Service Quality Model	82
Figure 3.2	Internal Service Quality Model: Key Contributing Factors To Gap 3	83
Figure 3.3	Gap 5: Between Customers' Expectations and Perceived Services	85
Figure 3.4	Theoretical Framework	90
Exhibit 4.1	Mean SERVQUAL Scores by Service Dimension	162
Exhibit 4.2	Mean SERVQUAL Scores by Service Dimension	163
Exhibit 4.3	Average SERVQUAL Scores	165
Exhibit 4.4	Average SERVQUAL Scores	166
Exhibit 4.5	Average Scores of Employees' Job Satisfaction	170
Exhibit 4.6	Average Scores of Employees' Job Satisfaction	172



CHAPTER I

INTRODUCTION

Background of Study

Quality has become the epitome of business people, government officials, and business and economic scholars. Customers, employees as well as the management of organizations have placed great emphasis on quality. Quality and quality control measures have long existed for tangible goods, but there are only a few such measures that have conventionally existed for services. This is because quality is difficult to define, describe and measure in services. Quality is determined by imprecise individual factors, such as perceptions, expectations and experiences of customers. While almost everyone recognizes the prevalent effect of quality, they are also at the same time having difficulties in grasping its dimensions.

The service sector has become an essential aspect of many countries. In many parts of the world, up to 70 percent of the employees work is related to service organizations. Net increases in the number of jobs in many economies stem mainly from service organizations, both private businesses and governmental bodies (Carlzon, I., 1991). The need to manage service quality is becoming more urgent as links between service quality and business performance is becoming apparent.

The role of service quality is widely recognized as being a critical determinant for the success of an organization in today's competitive environment. Any decline in



customer satisfaction due to poor service quality would be a matter of concern. Customers being more aware of rising standards in service, prompted by competitive trends, have developed higher expectations. Service organizations now have to serve an increasingly discerning public who are more eager than ever to complain and transfer their allegiances to perceived providers of quality services (Palmer, 1998). This fact, coupled with the increasingly hostile nature of the business environment has forced many within this sector to invest in the delivery of higher levels of service quality as a means of achieving competitive differentiation (McColl *et a* 1998).

An integral part of any organization's attempt to achieve competitive differentiation, is a commitment to a process of sustained quality improvement. Inherent in any such approach is the need to continually monitor internal and external performance so that organizational efforts can be better directed at consistently satisfying customer needs (Lee *et al.*, 2000).

This requires the support of a systematic approach to quality measurement (Ford and Bach, 1997). Ford *et al.*, (1999) states that interest in the measurement of service quality has mounted and measuring the quality of the service experience is now an integral part of most managers' responsibilities. Managing a service operation requires the manager to understand the service concept, service delivery system, and service levels. As the customer has a key role in the definition and evaluation of all three elements, it is imperative that service managers have a clear understanding of customer expectations and perceptions.

