THE KNOWLEDGE MANAHEMENT PRACTICES IN ORGANIZATIONS: THE CASE STUDY APPROACH

A thesis submitted to the Graduate School in partial fulfillment of the requirement for the degree

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By

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ABSTRAK

Dalam era baru, knowledge management menjadi sebahagian yang penting dalam Demi bersaing dalam persekitran yang penuh persaingan, organisasi organisasi. hendaklah innovasi, cepat bertindak, dan smart terhadap pengetahuan knowledge dalam organisasi mereka Keupayaan sesebuah organisasi kekal dalam era baru ini adalah bergantung kepada kebolehan sesebuah organisasi, menci pta nilai tambah dan menukar nilai dari pengetahuan knowledge asset di dalam organisasi mereka. Tiga buah organisasi dari sektor perkilangan dan satu oraganisasi dari sektor perkhidmatan dipilih dalam kajian ini. Tiga wakil kumpulan pekerja dari peringkat pengurusan yang berbeza dipilih untuk mengikuti kajian ini. Mereka adalah pengurusan atasan, pengurusan pertengahan, dan pengurusan bawahan. Dalam kajian ini, kesemua responden memberi maklum balas yang positif. Di antara empat buah syarikat, Syarikat C dan Syarikat D lebih melaksanakan knowledge management dalam organisasi mereka. Sebaliknya Syarikat B tidak melaksanakan knowledge management sepenuhnya dalam organisasi mereka. Didapati bahawa, Syarikat B lebih melaksanakan knowledge acquisition dalam organisasi mereka, dan tahapnya adalah sederhana. Bagi Syarikat A, tahap perlaksanaan knowledge management dalam organisasi mereka adalah sederhana. Pengetahuan knowledge menjadi semakin penting dalam sesebuah organisasi. Oleh itu, lebih banyak penyelidikan berkaitan dengan knowledge management harus dilakukan ke atas syarikat milik rakyat Malaysia pada masa akan datang demi meningkatkan daya saing mereka untuk bersaing dengan syarikat dari luar negeri.

Abstract

In the new millennium, knowledge management becomes important part for organization. In order to compete in the competitive environments, organizations must be more innovative, more agile, and smarter. The organizations can survive in this new millennium must be able to created added value and generates value from knowledge assets in their organizations. In this exploratory study, conveniences sampling method is used in this study to get the respondent participated in this study. Three manufacturing and one servicing companies were studied in this research. Three representatives from difference managerial levels respondents are invited to participate in this study. All of the respondents gave the positive feedback in this study. Among the four companies, only Company C and Company D are more fully practiced knowledge management in their organizations. Company B is not fully practiced all knowledge management in their organization. The knowledge acquisition found in practiced in company B and the extent of this knowledge practices is moderate, but the less knowledge practices are or not fully practiced at all in Company B. On the other hand, the extent of knowledge management practices for Company A is moderate. Since knowledge become important in organization, more study on knowledge management should be done on Malaysian based companies for future research in order to help them to increase their competitiveness to compete with foreign companies.

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CHAPTER ONE

INTRODUCTION

1.1 Background of the problem

In the new millennium, organizations begin to pay attention in knowledge management and how a knowledge-based organization can gain competitive advantages in the competitive environment. Organizations must be more innovative, more agile, and smarter in order to compete in this twenty-first century world. Those organizations cannot learn, adapt, and change will not survive in this new millennium. So the leaders of the organizations must progressive to create added value and generate value from knowledge assets in their organizations.

Company assets can categorize into tangible assets and intangible assets. Tangible assets such as property, equipment, plant, inventory, and financial capital were considered most fundamental company assets. Intangible assets are knowledge, brand, and relationship with the customer. Most of the organizations still focus on their tangible assets because tangible assets can be evaluated easily. Such as financial statement can reflect whether the company makes profit in their business or not. But without related knowledge and skill on that field company won't make a lot of profit in their business. According to Zelenny (2001), knowledge is the primary form of capital for organizations. All other forms are dependent derived, only secondary to

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References

- Abell, A., and Oxbrow, N., (2001), Competing With Knowledge: The Information In Knowledge Management Age. Library Association Planning: London.
- Alvesson, M., and Karreman, D., (2001). Odd Couple: Making Of The Sense Of The Curious Concept Of Knowledge Management, Journal Of Management Studies, No.38, No.7, pp.994-1018
- Al-Athari, A., and Zairi, M., (2001), Building Benchmarking Competence Through

 Knowledge Management Capability: A Empirical Study Of The Kuwait Context,

 Benchmarking An International Journal, Vol.8, No.1, pp.77-80
- APQC, (1999), Knowledge Management: Consortium Benchmarking Study, Best-Practice Report, APQC, US.
- APQC, (1999), Spread Knowledge Throughout Your Organizations Without Breaking The Bank, APQC, US
- Audrey, S.B., And Robert, D.S. (2001), Managing Organizational Knowledge As A Strategic Assets, Journal Of Knowledge Management, Vol.5, No.1, pp.8-18
- Badaracco, J.L., (1991), The Knowledge Link, Harvard Business School Press, Boston, MA.
- Bailey, C., Clarke, M., (2000), How Do Managers Use Knowledge About Knowledge Management, Vol.4, No.3, pp.235-243
- Beijerse, R.P.uit. (1999), Question In Knowledge Management: Defining And Conceptualising A Phenomenon, Journal Of Knowledge Management, vol.3, no.2, pp.94-109
- Beijerse, R.P.unit. (2000), Knowledge Management In Small And Medium-Sized Companies: Knowledge Management For Entrepreneurs, Vol.4,No.2,pp.162-179
- Bender, S., Fish, A. (2000). The Transfer Of Knowledge And The Retention Of Expertise: The Continuing Need Global Assignments, Journal Of Knowledge Knowledge Management, Vol.4, No.2, pp.125-137
- Bhatt, G.D., (2001), Knowledge Management In organizations: Examining The Interaction Between Technologies, Techniques, And People, Vol.5, No.1, pp.68-7

- Bhatt, G.D. (2002), Management Strategies For Individual Knowledge And Organization Knowledge, Journal of knowledge Management, Vol.6, No.1, pp.31-39.
- Bukowitz, W.R. and William, R.L. (1999), The Knowledge Management Fieldbook, Pearson, Education, Harlow
- Bustamante, G.P., (1999), Knowledge Management In Agile Innovative Organisations, Journal Of Knowledge Management, Vol.3, No.1, pp.6-17
- Carneiro, A.(2001), How Does Knowledge Management Influence Innovation And Competitiveness?, Journal Of Knowledge Management, Vol.4, No.2, pp.87-98
- Chase, R., (1997), The Knowledge-based Organization: An International Survey, Journal Of Knowledge Management, Vol. i, No. 1, pp.38-49
- Chong, C.W., Holden, T., (2000), Where Does Knowledge Management Add Value?, Journal Of Intellectual Capital, Vol.1, No.4, pp.366-380
- Clarke, T., (2001). The Knowledge Economy, Education + Training, Vol.43, No.4/5, pp.189-196.
- Clarke, T., and Rollo, C., (2001). Corporate Initiatives In Knowledge Management, Education +Training, Vol.43, No.4/5, pp.206-214.
- Coombs, R., Hull, R., (1998), Knowledge Management Practices And Path Dependency In Innovation, Research Policy, Vol.27, pp.237-253.
- Davenport, T.H. and Prusak, L. (1998), Working Knowledge: How Organizations Manage What They Know, Havard Business School Press, Boston, MA.
- Dretske, F., (1981), Knowledge And Flow Information, MIT Press, Cambridge, MA.
- Drucker, P.F. (1993), Post Capitalist Society, Oxford: Butterworth-Heinemann
- Emin civi, (2000), Knowledge Management As A Competitive Asset: A Review, Marketing Intelligence And Planning, Vol.18, No.4, pp.166-174
- Filius, R., De Jong, J.A., and Roelofs, E.C. (2000). Knowledge Management In HRD Office: A Comparison Of Three Cases, Journal Of Workplace Learning, Vol.12, No.7, pp.286-295
- Gronhaug, K., Nordhaug, O., (1992), Strategy And Competence In The Firm, European Management Journal, Vol. 10, No.4, pp.438-444.

- Goodman, RE., and Chinowsky, P.S., (1997). Preparing Construction Professional For Executives Decision Making, Journal Of Management In Engineering, Vol.13, No.6, pp.55-61.
- Gore, C., Gore, E., (1999), Knowledge Management: The Way Forward, Total Quality Management, Vol10,No.4-5, pp.554-560
- Grayson, C.J., and O'Dell, C.S. (1998), Mining Your Hidden Resources, Across The Board, April, pp.23-28
- Gupta, B., Lyer, L.S., and Aronson, J.E., (2000), Knowledge Management: Practices And Challenges, Industrial Management And Data Systems, Vol. 100, No. 1, pp. 17-21
- Haldin-Herragard, T.(2000), Difficulties In Diffusion Of Tacit Knowledge In Organizations, Journal Of Intellectual Capital, Vol.1, No.4., pp.357-365
- Harrison, R. (2000), Learning, Knowledge Productivity And Strategic Progress, International Journal Of Training And Development, Vol.4, No.4, pp.244-58
- Hauschild, S., Licht, T., and Stein, W., (2001), Creating Knowledge Culture: Knowledge Is Now The Lifeblood Of All Companies. Don't Confuse It With Information, The McKinsey Quarterlt, No.1
- Hedlund, G., (1994), A Model Of Knowledge Management And The N-From Corporation, Strategic Management Journal, Vol.15, pp.73-90
- Lee, C.C., and Yang, J., (2000), Knowledge Value Chain, Journal Of Management Development, Vol.19, No.9, pp.783-793
- Lee, S.M., and Hong, S., (2002), An Enterprise-wide Knowledge Management System Infrastructure, Industrial Management & Data Systems, Vol. 102, No. 1, pp. 17-25
- Lim, K.K (1999). Managing For Quality Through Knowledge Management, Total Quality Management, July, Vo.10, No.45, pp.615-622
- Macintosh, A., (1999), Knowledge Management Techniques: Teaching And Dissemination Concepts, International Journal Human-Computer Studies, Vol.51, pp.549-596.
- Marakas, G.M. (1999). Decision Support System In The Twenty-_first Century, Prentice-Hall, Englewood Cliffs, New Jersey, NJ.
- Molhotra, Y., (2000), Knowledge Management & New Organizations Forms: A Frame Framework For Business Mode Innovation. Idea Group Publishing: Hershey.

- Nonaka, I. (1991), The Knowledge-Creating Company, Harvard Business Review, Vol.6, No.8, pp.96-104
- Nonaka, I., (1994). A Dynamic Theory Of Organizational Knowledge Creation, Organizational Science. Vol.5, No.1, pp.14-37
- Nonaka, I., and Takeuchi, H. (1995). A dynamic Theory Of Organizational Knowledge Creation, Organizational Science, Vol.5, No.1, pp.14-37
- Polanyi, M., (1962), Personal Knowledge: Toward A Post-Critical Philosophy, Harper, Torchbook, New York.
- Prusak, L., (1996). The Knowledge Advantage, Planning Review, Vol.24, No.2, pp.6-8
- Quintas, P., Lefrere, P, and Jones, G. (1997). Knowledge Management: Strategic Agenda, Long Range Planning, Vol.30, No.,3, pp.385-391
- Smith, E.A., (2001), The Role Of Tacit And Explicit Knowledge In The Workplace, Journal Of Knowledge Management, Vol.5, No.4, pp.311-321
- Stewart, T.A., (1997), Intellectual Capital: The New Wealth Of Organizations', Nicholas Brealy, London.
- Wiig, K., (1993). Knowledge Management Foundation. Schema Press: New York
- Yahya, S., and Goh, E.K., (2002), Managing Human Resources Toward Achieving Knowledge Management, Vol.6, No.5, pp.457-468.
- Zeleny, M. (1987). Management Support Systems: Toward Integrated Knowledge Management, Human Systems Management, Vol.16, No.7, pp.59-70
- Zeleny, M. (2001). Knowledge Of Enterprise: Knowledge Management Or Knowledge Technology?, international Journal Of Information Technology & Decision Making, Vol.1, No.2, pp.181-207