

PENGARUH KEPELBAGAIAN KEMAHIRAN (*MULTI-SKILLING*)  
TERHADAP PRESTASI KERJA KAKITANGAN SOKONGAN  
KEMENTERIAN PERTAHANAN

Oleh

HISHAM AZLIN BIN ZAINUN

Tesis ini diserahkan kepada Othman Yeop Abdullah Graduate School of Business,  
Universiti Utara Malaysia sebagai memenuhi syarat keperluan jazah Sarjana Sains  
(Pengurusan) Universiti Utara Malaysia



Othman Yeop Abdullah  
Graduate School of Business

Universiti Utara Malaysia

PERAKUAN KERTAS PROJEK  
(*Certification of Project Paper*)

Saya, mengaku bertandatangan, memperakukan bahawa  
(*I, the undersigned, certified that*)

**HISHAM AZLIN BIN ZAINUN (811237)**

Calon untuk Ijazah Sarjana  
(*Candidate for the degree of*

**SARJANA SAINS (PENGURUSAN)**  
**MASTER OF SCIENCE (MANAGEMENT)**

telah mengemukakan kertas projek yang bertajuk  
(*has presented his/her project paper of the following title*)

**PENGARUH KEPELBAGAIAN KEMAHIRAN (MULTI-SKILLING)**  
**TERHADAP PRESTASI KERJA KAKITANGAN SOKONGAN**  
**KEMENTERIAN PERTAHANAN**

Seperti yang tercatat di muka surat tajuk dan kulit kertas projek  
(*as it appears on the title page and front cover of the project paper*)

Bahawa kertas projek tersebut boleh diterima dari segi bentuk serta kandungan dan meliputi bidang ilmu dengan memuaskan

(*that the project paper acceptable in the form and content and that a satisfactory knowledge of the field is covered by the project paper*)

Nama Penyelia UUM : **DR KADZRINA ABDUL KADIR**  
(*Name of supervisor*)

Tandatangan : \_\_\_\_\_  
(*Signature*)

Tarikh : **5 JANUARI 2013**  
(*Date*)

## **PENGESAHAN TESIS**

Saya mengaku bahawa semua kerja-kerja tesis yang dinyatakan dalam kertas penyelidikan ini adalah usaha saya sendiri (melainkan diakui dalam teks) dan bahawa tidak ada kerja-kerja tesis telah sebelum ini diserahkan untuk mana-mana program akademik Sarjana. Semua sumber yang dipetik telah diakui melalui rujukan.

Tarikh:

Tandatangan Pelajar :\_\_\_\_\_

## **KEBENARAN MENGGUNA**

Dalam membentangkan kertas penyelidikan ini, bagi memenuhi sebahagian syarat untuk ijazah lanjutan Universiti Utara Malaysia, saya bersetuju bahawa Perpustakaan Universiti boleh secara bebas membenarkan sesiapa sahaja untuk memeriksa. Saya juga bersetuju bahawa penyelia saya atau, jika ketiadaan beliau, Dekan Othman Yeop Abdullah Graduate School of Business, diberi kebenaran untuk membuat salinan kertas penyelidikan ini dalam sebarang bentuk, samada secara keseluruhannya atau sebahagian, bagi tujuan kesarjanaan. Adalah dimaklumkan bahawa sebarang penyalinan atau penerbitan atau kegunaan kertas penyelidikan ini samada sepenuhnya atau sebahagian daripadanya bagi tujuan keuntungan kewangan, tidak dibenarkan kecuali setelah mendapat kebenaran secara bertulis. Juga dimaklumkan bahawa pengiktirafan harus diberi kepada saya dan Universiti Utara Malaysia dalam sebarang kegunaan sarjana terhadap sebarang petikan daripada kertas penyelidikan saya.

Sebarang permohonan untuk salinan atau mengguna mana-mana bahan dalam kertas penyelidikan ini, samada sepenuhnya atau sebahagiannya, hendaklah dialamatkan kepada:

**Dekan  
Othman Yeop Abdullah Graduate School of Business  
Universiti Utara Malaysia  
06010 UUM Sintok  
Kedah Darul Aman**

## **ABSTRAK**

Pelancaran Program Transformasi Kerajaan (PTK) merupakan titik tolak terhadap ke arah perubahan minda seluruh rakyat di negara ini. Perubahan-perubahan yang ingin dibawa oleh Kerajaan mencakupi pelbagai aspek pembangunan negara termasuklah modal insan. Bercakap mengenai modal insan kita tidak dapat lari daripada membincangkan isu tenaga kerja di negara ini, termasuklah mereka yang berkhidmat di sektor perkhidmatan awam. Keperluan untuk meningkatkan kompetensi diri termasuk memiliki kelebihan persaingan sentiasa dititikberatkan terutama aspek kemahiran. Justeru, kajian ini dijalankan bertujuan untuk mengenalpasti hubungan dan pengaruh kepelbagaiannya kemahiran (*multi-skilling*) terhadap prestasi kerja kakitangan sokongan di Kementerian Pertahanan. Kajian ini juga ingin menentukan kekuatan pengaruh antara elemen *multi-skilling* iaitu penyeliaan, kepimpinan, kawal selia kendiri dan kepelbagaiannya tugas (*multi-tasking*) dengan prestasi kerja. Seramai 304 responden terlibat dalam soal selidik ini. Teknik analisis deskriptif digunakan untuk menilai tahap prestasi kerja dan *multi-skilling* berdasarkan demografi responden iaitu tempoh berkhidmat, kelulusan tertinggi, jantina dan umur. Manakala analisis inferensi ANOVA sehala, ujian *Post Hoc*, korelasi Pearson dan Regresi Berganda digunakan untuk menguji hipotesis yang dibentuk. Dapatkan kajian menunjukkan bahawa terdapat perbezaan di antara prestasi kerja dan *multi-skilling* berdasarkan faktor tempoh berkhidmat, kelulusan tertinggi dan jantina kecuali umur. Di samping itu, terdapat juga hubungan yang signifikan di antara dimensi *multi-skilling* (*vertical* dan *horizontal*) terhadap prestasi kerja. Hasil kajian juga mendapatkan bahawa *multi-skilling* mempengaruhi prestasi kerja sebanyak 40.4% dengan elemen *multi-tasking* merupakan penentu terbaik diikuti oleh kepimpinan diri dan penyeliaan kendiri. Manakala elemen kawal selia kendiri tidak menunjukkan pengaruh yang signifikan terhadap prestasi kerja kakitangan sokongan Kementerian Pertahanan.

## **ABSTRACT**

The launch of Government Transformation Program (GTP) is a starting point towards a mind change of the whole people in the country. The changes brought about by the Government covering various aspects including human capital development. Talking about human capital, we cannot run away from discussing labor issues in the country, including those in the public sector. The need to improve self-competence as well as having a competitive advantage always been emphasized especially in the aspect of skills. Therefore, this study aims to examine the relationship and influence of various skills (multi-skilling) on the work performance of support staff working in the Ministry of Defence. This study is also aim to determine the strength on the influence of multi-skilling elements such as supervision, leadership, self-regulation and multi-tasking with job performance. A total of 304 respondents were involved in this survey. Descriptive analysis techniques used to assess the level of performance and multi-skilling based on the demographic factors like educational level, gender and age. Whereas inferential analysis such as one way ANOVA, Post Hoc test, Pearson correlation and Standard Multiple Regression was used to test hypotheses formulated. The results showed that there are differences between the performance of multi-skilling and work performance based on the factors like length of service period, educational level and gender except for an age. In addition, there is also a significant relationship between the dimensions of multi-skilling (vertical and horizontal) on the work performance. The study also found that multi-skilling influenced work performance by 40.4% where multi-tasking is the best determinant followed by self-leadership and self-supervision. Meanwhile, the self-regulatory element showed no significant effects on the work performance of the Ministry of Defence support staff.

## **PENGHARGAAN**

Dengan Nama Allah yang Maha Pengampun lagi Maha Mengasihani

Alhamdulillah, syukur ke hadrat Allah S.W.T kerana dengan keizinanNya jua maka terhasillah kertas penyelidikan ini mengikut jadual seperti yang ditetapkan sebagai memenuhi syarat pengijazahan Sarjana Sains Pengurusan, Universiti Utara Malaysia.

Dikesempatan ini, pertamanya saya ingin mengucapkan setinggi-tinggi penghargaan kepada Dr. Kadzrina Abdul Kadir dari Universiti Utara Malaysia (UUM) selaku penyelia kertas penyelidikan ini yang telah banyak memberi tunjuk ajar serta bimbingan kepada saya dalam menyiapkan kertas penyelidikan ini. Tidak lupa juga kepada pihak INTAN terutamanya warga kerja Pusat Pengembangan Pengetahuan yang telah memberikan bantuan dan sokongan kepada saya terutamanya dalam proses analisis data bagi mencapai obektif kajian.

Untuk isteri tercinta, Puan Siti Fatimah bt Che Rouse dan anak-anak yang disayangi, Nisrina Alisha, Nisrina Nabilah dan Muhammad Aliff Firdaus, segala pengorbanan dan sokongan yang diberikan sepanjang kursus ini dilaksanakan adalah sangat-sangat dihargai. Hanya tuhan sahaja yang dapat membalasnya.

Akhir sekali ucapan terima kasih juga ditujukan kepada semua rakan-rakan Diploma Sains Pengurusan/Sarjana Sains Pengurusan (DSP/SSP) sesi 2011/2012 yang telah banyak bekerjasama dan memberikan bantuan serta nasihat sepanjang pengajian ini dilaksanakan terutamanya Encik Nozri Senawi dan Encik Wan Khairi Wan Hamat. Semoga kita akan beroleh kejayaan seterusnya dan hubungan ini diharapkan akan kekal selamanya.

HISHAM AZLIN BIN ZAINUN  
INTAN BUKIT KIARA  
KUALA LUMPUR  
2013

## KANDUNGAN

---

	HALAMAN
<b>PERAKUAN KERTAS PROJEK</b>	<b>ii</b>
<b>PENGESAHAN TESIS</b>	<b>iii</b>
<b>KEBENARAN MENGGUNA</b>	<b>iv</b>
<b>ABSTRAK</b>	<b>v</b>
<b>ABSTRACT</b>	<b>vi</b>
<b>PENGHARGAAN</b>	<b>vii</b>
<b>KANDUNGAN</b>	<b>viii</b>
<b>SENARAI RAJAH</b>	<b>xii</b>
<b>SENARAI JADUAL</b>	<b>xiii</b>
<b>SENARAI LAMPIRAN</b>	<b>xvi</b>
<b>SENARAI SINGKATAN</b>	<b>xvii</b>
<b>BAB 1 PENDAHULUAN</b>	<b>1</b>
1.1 Pengenalan	1
1.2 Latar Belakang Kajian	2
1.3 Penyataan Masalah	4
1.4 Persoalan Kajian	12
1.5 Objektif Kajian	12

---

	<b>HALAMAN</b>
1.6      Kepentingan Kajian	13
1.7      Skop Kajian	15
1.8      Andaian Kajian	16
1.9      Organisasi Kajian	17
1.10     Rumusan	17
<b>BAB 2    KAJIAN LITERATUR</b>	<b>19</b>
2.1      Pengenalan	19
2.2      Kajian Prestasi Kerja	19
2.3      Kajian <i>Multi-skilling</i>	26
2.4      Model dan Teori Prestasi	29
2.5      Pembentukan Kerangka Konsep	35
2.6      Hipotesis Kajian	38
2.7      Rumusan	39
<b>BAB 3    METODOLOGI KAJIAN</b>	<b>41</b>
3.1      Pengenalan	41
3.2      Rekabentuk Kajian	41
3.3      Definisi Konsep	43
3.4      Unit Analisis	51

---

---

	<b>HALAMAN</b>
3.5 Populasi dan Persampelan Kajian	52
3.6 Teknik Pengumpulan Data	53
3.7 Soal Selidik	54
3.8 Kebolehpercayaan Instrumen Kajian	60
3.9 Ujian Rintis	64
3.10 Ujian Kebolehpercayaan Kajian Sebenar	64
3.11 Ujian Normaliti Awalan	66
3.12 Ujian Lineariti	68
3.13 Kaedah Analisis Data	68
3.14 Rumusan	74
<b>BAB 4 ANALISA DATA</b>	<b>75</b>
4.1 Pengenalan	75
4.2 Proses Analisa Data	77
4.3 Pengujian dan Penilaian Data	78
4.4 Rumusan	113
<b>BAB 5 PERBINCANGAN</b>	<b>115</b>
5.1 Pengenalan	115
5.2 Tahap Prestasi Kerja	115

---

---

**HALAMAN**

---

5.3	Tahap <i>Multi-skilling</i>	118
5.4	Perbezaan Prestasi Kerja Berdasarkan Demografi	121
5.5	Perbezaan <i>Multi-skilling</i> Berdasarkan Demografi	123
5.6	Perhubungan <i>Multi-skilling</i> dan Prestasi Kerja	123
5.7	Pengaruh <i>Multi-skilling</i> Terhadap Prestasi Kerja	126
5.8	Rumusan Kajian	127
5.9	Implikasi Kajian	128
5.10	Limitasi Kajian	130
5.11	Cadangan	130
5.12	Kajian Akan Datang	132
5.13	Penutup	134
<b>RUJUKAN</b>		135 - 145
<b>LAMPIRAN</b>		146 - 198

## **SENARAI RAJAH**

## **HALAMAN**

### **Rajah**

2.1	Komponen dan Penentu Prestasi	30
2.2	Model Teori Kecirian Kerja	34
2.3	Kerangka Konseptual Kajian	37
3.1	Model Analisis Regresi Berganda	73
4.1	Struktur Bab 4	76
4.2	Skala Pengukuran Analisis Data Awalan	80
4.3	Model Analisa Regresis Berganda	111

## SENARAI JADUAL

### HALAMAN

#### **Jadual**

1.1	Perbelanjaan Kerajaan Di Bawah Belanja Mengurus	8
1.2	Jumlah Aduan Mengikut Kategori	10
3.1	Contoh Soalan Penyeliaan Kendiri	55
3.2	Elemen Penyeliaan Kendiri dan No Item	56
3.3	Contoh Soalan Kawal Selia Kendiri	56
3.4	Elemen Kawal Selia Kendiri dan No Item	57
3.5	Contoh Soalan Kepimpinan Diri	57
3.6	Elemen Kepimpinan Diri No Item	58
3.7	Contoh Soalan Kepelbagaian Tugasan	58
3.8	Elemen Kepelbagaian Tugasan dan No Item	59
3.9	Contoh Soalan Prestasi Kerja	59
3.10	Dimensi Prestasi Kerja dan No Item	60
3.11	Instrumen dan Item Soal Selidik Kajian	63
3.12	<i>Cronbach Alpha</i> dan Kekuatan Perkaitan	65
3.13	Keputusan Ujian Kebolehpercayaan	65
3.14	Keputusan Ujian Normaliti Dimensi <i>Multi-skilling</i>	67
3.15	Keputusan Ujian Normaliti Dimensi Prestasi Kerja	67
3.16	<i>Recode</i> Item Negatif	69
3.17	Nilai Korelasi dan Kekuatan Hubungan	72

3.18	Ringkasan Teknik Analisis Dapatan Kajian	74
4.1	Analisis Data Awalan Penyeliaan Kendiri	82
4.2	Analisis Data Awalan Kawal Selia Kendiri	84
4.3	Analisis Data Awalan Kepimpinan Diri	85
4.4	Analisis Data Awalan Kepelbagai Tugasan	87
4.5	Analisis Data Awalan Prestasi Kerja	89
4.6	Ujian Normaliti Konstruk Baru	90
4.7	Taburan Responden Mengikut Tempoh Perkhidmatan	91
4.8	Taburan Responden Mengikut Tempat Berkhidmat	92
4.9	Taburan Responden Mengikut Kelulusan Tertinggi	93
4.10	Taburan Responden Mengikut Jantina	93
4.11	Taburan Responden Mengikut Umur	94
4.12	Taburan Responden Mengikut Status Perkahwinan	94
4.13	Ringkasan Analisis Deskriptif	95
4.14	Hasil T-test Prestasi Kerja Demografi Jantina	98
4.15	Hasil T-test <i>Multi-skilling</i> Demografi Jantina	100
4.16	Hasil Ujian ANOVA Sehala Prestasi - Tempoh Berkhidmat	101
4.17	Hasil Ujian ANOVA Sehala Prestasi - Kelulusan Tertinggi	102
4.18	Hasil Ujian ANOVA Sehala Prestasi - Umur	103
4.19	Hasil Ujian ANOVA Sehala <i>Multi-skilling</i> - Tempoh Berkhidmat	104
4.20	Hasil Ujian ANOVA Sehala <i>Multi-skilling</i> - Kelulusan Tertinggi	105
4.21	Hasil Ujian ANOVA Sehala <i>Multi-skilling</i> – Umur	105

4.22	Hasil Ujian Korelasi Pearson <i>Vertical</i> – Prestasi Kerja	106
4.23	Hasil Ujian Korelasi Pearson <i>Horizontal</i> – Prestasi Kerja	107
4.24	Ringkasan Dapatan Ujian Korelasi	108
4.25	Ujian Penilaian Model Regresi	110
4.26	Ujian Penentu Ramalan Prestasi Kerja	111
4.27	Ringkasan Dapatan Kajian	114
5.1	Keputusan Analisa Min Tertinggi Prestasi Kerja	115
5.2	Keputusan Analisa Min Tertinggi <i>Multi-skilling</i>	119

## **SENARAI LAMPIRAN**

## **HALAMAN**

### **Lampiran**

1	Kedudukan Pengisian Perjawatan	146
2	Salinan Surat Permohonan	147
3	Borang Soal Selidik	149
4	Terjemahan ITBM	157
5	<i>Cronbach Alpha</i> Ujian Rintis	161
6	Keputusan Ujian Kebolehpercayaan Sebenar	162
7	Keputusan Ujian Normaliti Awalan	163
8	Ujian Lineariti	165
9	Analisis Data Awalan	166
10	Ujian Normaliti Konstruk Baru	176
11	Analisis Deskriptif Tahap	178
12	Ujian <i>T-test</i>	189
13	Keputusan Ujian ANOVA sehala dan <i>Post Hoc</i>	191
14	Ujian Korelasi	195
15	Keputusan Ujian Regresi Pelbagai	196

## SENARAI SINGKATAN

PTK	-	Program Transformasi Kerajaan
MAPPA	-	Majlis Perdana Perkhidmatan Awam
KPPA	-	Ketua Pengarah Perkhidmatan Awam
NKRA	-	Bidang Keberhasilan Utama Negara
KPI	-	<i>Key Performance Indicator</i>
RMK-10	-	Rancangan Malaysia Ke Sepuluh
PTE	-	Program Transformasi Ekonomi
JPA	-	Jabatan Perkhidmatan Awam
SPA	-	Suruhanjaya Perkhidmatan Awam
NGO	-	Organisasi Bukan Kerajaan
BPA	-	Biro Pengaduan Awam
JCT	-	<i>Job Characteristics Theory</i>
BPSM	-	Bahagian Pengurusan Sumber Manusia
BADSA	-	Bahagian Audit dan Siasatan Am
JLKN	-	Jabatan Latihan Khidmat Negara
JHEV	-	Jabatan Hal Ehwal Veteran
INTAN	-	Institut Tadbiran Awam Negara
ITBM	-	Institut Terjemahan Buku Malaysia
SSA	-	<i>Supervisory Self-Assessment</i>
SRQ	-	<i>Self-Regulation Questionnaire</i>
RSLQ	-	<i>Revised Self-Leadership Questionnaire</i>
IPV	-	<i>Inventory of Polychronic Values</i>
STRIDE	-	Institut Penyelidikan Sains dan Teknologi Pertahanan

KMO	-	<i>Kaiser-Meyer-Olkin</i>
PCA	-	<i>Principle Component Analysis</i>

## **BAB 1**

### **PENDAHULUAN**

#### **1.1 Pengenalan**

Kemahiran untuk melaksanakan aktiviti atau fungsi tugas yang kompleks melibatkan idea (*cognitive skills*), benda (*technical skills*) dan manusia (*interpersonal skills*) semata-mata tidak lagi hanya digunakan untuk melihat keupayaan seseorang dalam melaksanakan tugas yang diberikan. Kenyataan ini disokong oleh Bika (2003) yang mengatakan bahawa seseorang pekerja itu perlu meningkatkan keupayaan dirinya dan menjadi lebih fleksibel. Beliau menambah bahawa halatuju di peringkat antarabangsa telah menunjukkan berlakunya pergerakan ke arah peningkatan fleksibiliti di tempat kerja. Perubahan di dalam organisasi dan amalan kerja mempunyai implikasi yang mendalam terhadap kemahiran yang diperlukan daripada pekerja. Organisasi yang berprestasi kerja tinggi biasanya menggunakan pasukan kerja yang diurus sendiri (*self-managed work team*), kepelbagaian kemahiran (*multi-skilling*), pusingan kerja (*job rotation*), latihan silang (*cross training*) dan penurunan kuasa di dalam pembuatan keputusan (Johanson, 2004).

Bhattacharya & Gibson (2005) menjelaskan bahawa asas kemahiran yang luas adalah lebih kompleks dan sukar untuk ditiru kerana ianya merujuk kepada perluasan kemahiran-kemahiran yang terhasil daripada kepelbagaian pengalaman. Muhammad Yasein (2010) pula menyatakan bahawa secara umumnya terdapat banyak kriteria, pengetahuan dan kemahiran serta kompetensi lain yang perlu dimiliki oleh tenaga kerja.

The contents of  
the thesis is for  
internal user  
only

## Rujukan

- Abd. Shukor, Noran Fauziah Yaakub & Rosna Awang Hashim (2002). Job Motivation and Performance of Secondary School Teachers. *Malaysian Management Journal*, 6 (1 &2), 17-24.
- Abu Bakar Abdullah. (2010, November 22). 6,133 Penjawat Awam Bermasalah. *Berita Harian*.
- Ackerman, P.L. (1988). Determinants of Individual Differences During Skill Acquisition: Cognitive Abilities and Information Processing. *Journal of Experimental Psychology: General*, 117(3), 288-318.
- Andersen, M.K. (2010). Multiskilling and Job Satisfaction in Outsourcing. *Aspector White Paper*, 1-15.
- Anuar Hussin. (2011). The Relationship Between Job Satisfaction And Job Performance Among Employees In Tradewinds Group Of Companies. *Unpublished Master Thesis*. Open University Malaysia.
- Appelbaum, S. H., Marchionni, A., & Fernandez, A. (2008). The multi-tasking paradox: perceptions, problems and strategies. *Management Decision*, 46(9), 1313-1325.
- Arman Abdul Razak, Mastura Jaafar, Shardy Abdullah & Shamsiah Muhammad (2009). Work Environment Factors And Job Performance: The Construction Project Manager's Perspective. Universiti Sains Malaysia, Penang, Malaysia.
- Armstrong, K., Waycott, J. & Langan-Fox, J. *Skill Acquisition: Measurement, Theory, and Research*. *Unpublished Master Thesis*. University of Melbourne, Australia.
- Arvey, R. D. & Murphy, K. R. (1998). Performance Evaluation in Work Settings. *Annual Review of Psychology*, 49, 141–168.
- Aubrey, L. A., Brown, J. M., & Miller, W. A. (1994). Psychometric Properties Of The Self-Regulation Questionnaire (SRQ). (Abstract). *Alcoholism: Clinical And Experimental Research*, 18, 429.
- Aviles, J.A.G. & Leon, B. (2004). Journalists at Digital Television Newsrooms in Britain and Spain: Workflow and Multi-skilling in a Competitive Environment. *Journalism Studies*, 5(1), 87-100.
- Azizi Ahmad Sarkawi. (2009). *Hubungan Antara Faktor Motivasi Intrinsik dan Ekstrinsik Dengan Prestasi Kerja : Kajian Di Kalangan Pegawai Tentera Lauta DiRaja Malaysia*. *Unpublished Master Thesis*. Universiti Utara Malaysia, Sintok, Kedah.
- Barrick, M.R. & Mount, M.K. (1991). The Big Five Personality and Job Performance: A Meta Analysis. *Personnel Psychology*, 44, 1-26.

- Barrick, M. R., Mount, M.K. & Judge, T.A. (2001). Personality and Performance at the Beginning of the New Millennium: What Do We Know and Where Do We Go Next? *International Journal of Selection and Assessment*, 9(1), 9-30.
- Bauer, K., DeVincentis & Taber, J. (2008). Gender Differences In Multi-Tasking Performance. *Unpublished Master Thesis*. Hannover College.
- Bhattacharya, M & Gibson, D.E. (2005). The Effects of Flexibility in Employee Skills, Employee Behaviors, and Human Resource Practices on Firm Performance. *Journal of Management*, 31(4), 1-19.
- Bickerton, L. (2009). Understanding Professional Self-Regulation in British Columbia. Comparison of Self-Regulating Professions in British Columbia.
- Bika, C. (2003). The Impact of Multi-skilling Training on The Paintshop Production Environment and Its Employees at Volkswagen South Africa (VWSA). *Unpublished Master Thesis*. Port Elizabeth Technikon, South Afrika.
- Buser, T. & Peter, N. (2011). Multitasking: Productivity Effects and Gender Differences. University of Amsterdam.
- Blickle, G., Meurs, J. A., Zettler, I., Solga, J., Noethen, D., Kramer, J. & Ferris, G.R. (2008). Personality, Political Skill, and Job Performance. *Journal of Vocational Behavior*, 72, 377–387.
- Bloemen, H. G. (2012). Language Proficiency Of Migrants: The Relation With Job Satisfaction And Matching. Department of Economics, VU University Amsterdam, Netherlands.
- Bluedorn, A. C., Kalliath, T. J., Strube, M. J., & Martin, G. D. (1999) Polychronicity: A Fundamental Dimension of Organizational Culture. *Journal Of Managerial Psychology*, 3, 205-230.
- Borge, L.E., Falch, T. & Tovmo, P. (2007). Public Sector Efficiency: The Roles of Political and Budgetary Institutions, Fiscal Capacity and Democratic Participation. *Public Choice*, 136, 475–495.
- Brown, J. M., Miller, W. R., & Lawendowski, L. A. (1999). The Self-Regulation Questionnaire. *Innovations in Clinical Practice: A Source Book*. Professional Resource Press: 17, 281-289.
- Buhler, P.M. (1990). Are you getting the most out of your employees? *Supervision*, 51(10), 14-16.
- Buser, T. & Peter, N. (2011). Multitasking: Productivity Effects and Gender Differences. Dipetik daripada <http://www.mtakti.hu/file/download/korosi/2011/peter.pdf>.
- Campbell, A. J. (1999). Self-Regulation and The Media. *Federal Communications Law Journal*, 51, 711-771.

- Campbell, J. P., Gasser, M. B., & Oswald, F. L. (1996). The Substantive Nature Of Job Performance Variability. In K. R. Murphy (Ed.), *Individual Differences and Behavior in Organizations*, 258 - 299.
- Campion, M.A. & McClelland, C.L. (1993). Follow-up and Extension of the Interdisciplinary Costs and Benefits of Enlarge Jobs. *Journal of Applied Psychology*, 78(3), 339-351.
- Carmeli, A., Meitar, R. & Weisberg, J. (2006). Self-Leadership Skills and Innovative Behavior At Work. *International Journal of Manpower*, 27 (1), 75-90.
- Charles, T., Kimutai, C. K. & Zachariah, K. (2012). The Impact of Head Teachers' Supervision of Teachers on Students' Academic Performance. *Journal of Emerging Trends in Educational Research and Policy Studies*, 3(3), 299-306.
- Chen, L.C. & Wallace, M. (2009). Multiskilling in The Hotel Industry in Taiwan, *Sustainable management and marketing: Australian and New Zealand Academy of Management (ANZAM) Conference*, Melbourne, Australia.
- Chen, L.C. (2010). Multi-Skilling in the Hotel Industry in Taiwan. *Unpublished Phd Thesis*. Southern Cross University, Australia.
- Chuan, C. L. (2006). Sample Size Estimation Using Krejcie and Morgan and Cohen Statistical Power Analysis: A Comparison. *Jurnal Penyelidikan IPBL*, 7, 78-86.
- Chua Y. P. (2012). Asas Statistik Penyelidikan: Buku 2. McGraw Hill (Malaysia) Sdn. Bhd.
- Coakes, S. J., Steed, L. & Dzidic, P. (2006). SPSS version 13.0 for windows: Analysis Without Anguish. Australia: John Wiley and Sons Australia Ltd.
- Cohen, J. W. (1988) Statistical Power Analysis for the Behavioral Sciences (2<sup>nd</sup> Edition). Hillsdale, NJ: Lawrence Erlbaum Associates.
- Collins, A. L. (1997). Multiskilling: A Survey of Occupational Therapy Practitioners' Attitudes. *The American Journal of Occupational Therapy*, 51(9), 748-753.
- Condly, S. J., Clark, R. E. & Stolovitch, H. D. (2003). The Effects of Incentives on Workplace Performance: A Meta-analytic Review of Research Studies. *Performance Improvement Quarterly*, 16(3), 46-63.
- Cook, A. L. (2008). Job Satisfaction And Job Performance: Is The Relationship Spurious? *Unpublished Master Thesis*. Texas A&M University, United States.
- Cooper, D. R., & Schindler, P. S. (2003). Business research methods (8th ed.). New York: McGraw-Hill Irwin.

- Cordery, J. L. (1995). Work Redesign: Rhetoric vs Reality. *Asia Pacific Journal of Human Resources*, 33(2), 3-19.
- Cote, S. & Miners, C. T. H. (2006). Emotional Intelligence, Cognitive Intelligence and Job Performance. *Administrative Science Quarterly*, 51, 1-28.
- Crawford, I., Klemm, A. & Simpson, H. (2003). Measuring Public Sector Efficiency. *Green Budget*, 105-111.
- Cribb, P. M. (1998). A Study of Multiskilling Needs of Clinical Laboratories Within Northeast Wisconsin. *Unpublished Master Thesis*. University of Wisconsin-Stout, United States.
- Daniels, K. & Harris, C. (2000). Work, Psychological Well-being and Performance. *Occup. Med.*, 50, 304-309.
- Davids, Z. (2004). Aspects Of Multi-Skilling Contributing To Quality Service Provision Within Academic Libraries. *Unpublished Master Thesis*. University of Western Cape: South Africa.
- Delano, F. & Shah, J (2009). Defining Supervision in a Professionally Packaged Way. *Journal of Relation Child and Youth Care*, 22(1), 49-57.
- DeVaro, J. & Farnham, M. (2010). Two Perspectives on Multiskilling and Product Market Volatility. *Unpublished Master Thesis*. University of Victoria, Canada.
- Drucker, P. F. (1967). *The Effective Executive*. New York: Harper and Row.
- Drucker, P. F. (2000). Knowledge-worker Productivity: The Biggest Challenge. *California: Management Review*, 41 (2).
- Dyne, V. L., Jehn, K. A., Cummings, A. (2002). Differential Effects of Strain on Two Forms of Work Performance: Individual Employee Sales and Creativity. *Journal of Organizational Behavior*, 23, 57-74.
- Edaham Ismail. (2009). Peranan Iklim Organisasi dan Ciri Personaliti Terhadap Prestasi Kerja. *Unpublished Master Thesis*. Universiti Utara Malaysia, Sintok: Kedah.
- Ejowhomu, O. A, Proverbs, D. G. & Olomolaiye, P. (2006) Multiskilling: A UK Construction And Building Services Perspective. In: Boyd, D (Ed) *Procs 22nd Annual ARCOM Conference*, 4-6 September 2006, Birmingham, UK, Association of Researchers in Construction Management, 885-894.
- El-Sabaa, S. (1999). The Skills and Career Path of an Effective Project Manager. *International Journal of Project Management*, 19, 1-7.
- Esposto, A. (2008). Skill: An Elusive and Ambiguous Concept in Labour Market Studies. *Australian Bulletin of Labour*, 32 (1), 100-124.

- Evans, K. R., Schlacter, J. L., Schultz, R. J., Gremler, D. D., Pass, M. & Wolfe, W.G. (2002). *Journal of Marketing*, 30-44.
- Faturochman (1997). The Job Characteristics Theory: A Review. *Buletin Psikologi*, 5(2), 1-13.
- Fauzilah Salleh, Noryati Yaakub & Zaharah Dzulkifli (2011). The Influence of Skill Levels on Job Performance of Public Service Employees in Malaysia. *Business and Management Review*, 1(1), 31- 40.
- Ferreira, E. & Antwerpen, S.V. (2011). Productivity and Morale of Administrative Employees in The South African Public Service. *African Journal of Business Management*, 5(32), 12606-12614.
- Fisher, C. D. (2003). Why Do Lay People Believe That Satisfaction And Performance Are Correlated? Possible Sources of a Commonsense Theory. *Journal of Organizational Behavior*, 24, 753–777.
- Gay, L. R. (1992). *Educational research competencies for analysis and application* (4th ed.). New York: Macmillan.
- Getsdottir, S. & Lerner, R. M. (2008). Positive Development in Adolescence: The Development and Role of Intentional Self-Regulation. *Human Development*, 51, 202–224.
- Girgis, Z.M. (2010). *Predicting Multitasking Performance and Understanding the Nomological Network of Polychronicity*. Unpublished Master Thesis. San Diego State University, United States.
- Ghobadian, A. & Ashworth, J. (1996). Performance Measurement in Local Government – Concept and Practice, *International Journal of Operations & Production Management*, 14 (5), 35-51.
- Ghobadian, A., Speller, S. & Jones, M. (1993). Service Quality: Concepts and Models. *International Journal of Quality & Reliability Management*, 11(9), 43-66.
- Green, C., Jegadesh, M. & Tang, Y. (2009). Gender And Job Performance: Evidence From Wall Street. *Financial Analysts Journal*, 65 (6), 1-14.
- Gronroos, C. (1988). Service Quality: The Six Criteria of Good Perceived Service Quality. *Review of Business*. St. John's University, 9(3).
- Gumesson, E. (1991). Service Quality: A Holistic View. Brown, S.W. (Et Al.): Service Quality: Multidisciplinary and Multinational Perspectives. Lexington Books.

- Haas, C.T., Morton, D.P., Tucker, R.L., Gomar, J.E. & Terrien, R.K. (2000). Assignment and Allocation Optimization of a Partially Multiskilled Workforce. *A Report of Center for Construction Industry Studies*, The University of Texas at Austin, 1-38.
- Haas, C.T., Borcherding, J.D., Glover, R.W., Tucker, R.L., Carley, L.A. & Eickman, J.A. (1999). Craft Workers Experiences With And Attitudes Towards Multiskilling. *A Report of Centre for Construction Industry Studies*, Texas: United States.
- Hair, J. F., Anderson, R.E., Tatham, R.L & Black, W.C. (1998). *Multivariate Data Analysis*. New Jersey: Parentice Hall.
- Hair, J. F, B, Money, A. H. & Samouel, P. (2003). *Essentials of Business research methods*. USA: Wiley.
- Hawkins, P. & Shohet, R. (1993). Supervision in the Helping Professions. *Open University Press*, 77-79.
- Hayrol Azril Mohamed Shaffril & Jegak Uli. (2010). The Influence Of Socio-Demographic Factors On Work Performance Among Employees Of Government Agriculture Agencies In Malaysia. *The Journal of International Social Research*, 3(10).
- Horbury, C. & Wright, M. (2001). *Development of a Multiskilling Life Cycle Model*. Health and Safety Executive, Norwich, England.
- Hoyle, R. H. & Davisson, E, K. (2011). Assessment of Self-Regulation and Related Constructs: Prospects and Challenges. *National Research Council Board on Testing and Assessment Workshop on Assessment of 21st Century Skills*, Irvine, California, United States.
- Healey, J. (2005). Statistic-A Tool For Social Research (7th Ed). USA: Thomson Wadsworth.
- Houghton, J.D. (2000). The Relationship Between Self-Leadership and Personality: A Comparison Of Hierarchical Factor Structures. *Unpublished Phd Thesis*. Virginia Polytechnic Institute and State University, United States.
- Houghton, J. D. & Neck, C.P. (2002). The Revised Self-Leadership Questionnaire: Testing a Hierarchical Factor Structure for Self-Leadership. *Journal of Managerial Psychology*, 11(8), 672-691.
- Houghton, J. D., Bonham, T. W., Neck, C. P. & Singh, K. (2004). The Relationship Between Self-Leadership And Personality: A Comparison of Hierarchical Factor Structures. *Journal of Managerial Psychology*, 19 (4), 427-441.
- Ishak Yussof, Rahmah Ismail & Robiah Sidin. (2008). Graduan dan Alam Pekerjaan: Kes Siswazah UKM. *Akademika*, 72, 3-24.

- Ismail Azman, Ching Sieng, L. L., Mohd Na'eim Ajis, Noor Faizzah Dollah & Ali Boerhannoeddin. (2009). Relationship Between Supervisor's Role and Job Performance In The Workplace Training Program. Dipetik daripada [http://anale.faea.uaic.ro/anale/resurse/20\\_M01\\_Azman.pdf](http://anale.faea.uaic.ro/anale/resurse/20_M01_Azman.pdf)
- Johanson, R. K. (2004). Implications of Globalization and Economic Restructuring For Skills Development In Sub-Saharan Africa. *International Labour Office Working Paper*. Geneva, Switzerland.
- Kenyon, S. (2010). What Do We Mean By Multitasking? – Exploring the Need For Methodological Clarification In Time Use Research. *International Journal of Time Use Research 2010*, 7(1), 42-60.
- Kim, Y. (1999). The Determinants of Public Officials' Job Satisfaction – The Case of Korean Public Officials in The Cadastral Administration. *Unpublished Phd Thesis*). Chongju University, Korea.
- Kim, Y. H. (2002), “A State of Art Review on the Impact of Technology on Skill Demand in OECD Countries”, *Journal of Education and Work*, 15(1), 89-109.
- Konradt, Andreben, P. & Ellwart, T. (2009). Self-Leadership in Organizational Teams: A Multilevel Analysis of Moderators and Mediators. *European Journal of Work and Organizational Psychology*, 18 (3), 322 – 346.
- Koon, Tsu Koh (2010). *Laporan Tahunan Biro Pengaduan Awam 2010*. Percetakan Nasional Wilayah Persekutuan Putrajaya.
- Krejcie, R.V. & Morgan, D.W. (1970). Determining Sampel Size for Research Activities. *Educational and Psychological Measurement*, 30, 607-610.
- Lawton A. & Rose A. G. (1991). *The Public Services Management*. Prentice Hall.
- Lee, K. C. (2009). Hubungan antara Budaya Organisasi dengan Prestasi Kerja: Satu Kajian di Pasukan Polis Diraja Malaysia. *Unpublished Master Thesis*. Universiti Utara Malaysia, Sintok.
- Lee, F. J. & Taatgen, N. A. (2002). Multitasking As Skill Acquisition. Proceedings of The 24<sup>th</sup> Annual Conference Of The Cognitive Science Society.
- Machin, S. & Van Reenan, J. (1998). Technology and Changes in Skill Structure: Evidence from Seven OECD Countries. *Quarterly Journal of Economics*, 1215-1244.
- Mahfuz Judeh, (2012). Assessing the Influence of Job Characteristics and Self-Efficacy on Job Performance: A Structural Equation Modeling Analysis. *European Journal of Social Sciences*, 3, 355-365.
- Maleske, R. T. (1995). *Foundations for Gathering and Interpreting Behavioral Data*. Pacific Grove, CA: Brooks Cole Publishing Company.

- Mastura Jaafar, Ramayah, T. & Zainurin Zainal (2006). Work Satisfaction and Work Performance: How Project Managers in Malaysia Perceive It? *Academy of World Business, Marketing and Management Development Conference Proceedings*, 2(113), 1305 – 1313.
- McDonald, T.N. (2004). Analysis of Worker Assignment Policies on Production Line Performance Utilizing a Multi-skilled Workforce. *Unpublished Phd Thesis*. Virginia Polytechnic Institute and State University, Virginia.
- Md. Yahya Basimin. (2009, November 25). Penjawat Awam Jangan Lengahkan Proses Kerja. *Utusan Malaysia*.
- Megat Aman Zahiri Megat Zakaria, Baharudin Aris, Jamaluddin Harun & Mohd Zolkifli Abd Hamid. (2007). Hubungan Antara Kemahiran Generik dengan Jantina, Pengkhususan dan Pencapaian Guru-Guru Pelatih UTM: Satu Tinjauan. *Seminar Penyelidikan Pendidikan Institut Perguruan Batu Lintang Tahun 2007*. Fakulti Pendidikan, Universiti Teknologi Malaysia.
- Mihaiu, D.M., Opreana, A. & Cristescu, M.P. (2010). Efficiency, Effectiveness and Performance of the Public Sector, *Romanian Journal of Economic Forecasting*, 4, 132-147.
- Mohammed Abubakar Mawoli & Abdullahi Yusuf Babandako. (2011). An Evaluation of Staff Motivation, Dissatisfaction and Job Performance. *Australian Journal of Business and Management Research*, 1(9), 1-13.
- Mohd Najib Tun Abdul Razak. (2011). Majlis Perdana Perkhidmatan Awam Kedua Belas (MAPPA XII): Pusat Konvensyen Antarabangsa Putrajaya (PICC), Putrajaya.
- Mohd Najib Tun Abdul Razak. (2011, Ogos 4). Sektor Awam Diingatkan Hadapi Cabaran Untuk Bergerak Seiring Dengan Perubahan Zaman. *Bernama*.
- Mohd Najib Tun Abdul Razak. (2010, Jun 10). Tingkat Kemahiran Pekerja Tempatan. *Utusan Malaysia*.
- Mohd Sidek Hassan. (2006). Isu-isu Tadbir Urus dan Integriti Dalam Perkhidmatan Awam: Dulu, Kini dan Masa Depan. Konvensyen Jawatankuasa Keutuhan Pengurusan 2006. Sabah.
- Muhammad Riaz Khan, Ziauddin, Farooq Ahmed Jam & Ramay, M.I. (2010). The Impacts of Organizational Commitment on Employee Job Performance. *European Journal of Social Sciences*, 15(3), 292-298.
- Muhammad Yasein Rahahleh (2010). The Gap in the Knowledge, Skills, and Other Competencies Posses by Jordanian Women in Auditing Profession: Jordanian Perspective. *International Research Journal of Finance and Economics*. Issue 56, 140-150.

- Muraven, M., Baumeister, R. F. & Tice, D. M. (1999). Longitudinal Improvement of Self-Regulation Through Practice: Building Self-Control Strength Through Repeated Exercise. *Journal of Social Psychology*, 139(4), 446-458.
- Mustapha, F.H. and Naoum, S. (1997) Factor Influencing the Effectiveness of Construction Site Managers, *International Journal of Project Management*, 16, 1-8.
- Mwita, J.I. (2000). Performance Management Model: A Systems-based Approach to Public Service Quality. *International Journal of Public Sector Management*, 13(1), 19 – 37.
- Neda Tiraiyari, Khairuddin Idris, Jegak Uli & Azimi Hamzah. (2011). Relationship Between Human Development Competencies and Work Performance. *Australian Journal of Basic and Applied Sciences*, 5(5), 1356-1363.
- Ng, T. W. H. & Feldman, D. C. (2009). How Broadly Does Education Contribute To Job Performance? *Personnel Psychology*, 62, 89-134.
- Nimalathasan, B. (2010). Job Satisfaction and Employees' Work Performance: A Case Study of People's Bank in Jaffna Peninsula, Sri Lanka. *Unpublished Master Thesis*. University of Jaffna, Sri Lanka.
- Nurulhuda Ramli, Fun, C.S. & Fazli Idris. (2009). Kajian Kepuasan Pelanggan Terhadap Perkhidmatan Perpustakaan Universiti Awam di Malaysia. *Jurnal Pengurusan*, 28, 23-43.
- Ogunsaju, S. (1983). Educational Supervision Perfectives and Practice in Nigeria. Obafemi Awolowo University Press.
- Ojo, O. (2009). Impact Assessment of Corporate Culture On Employee Job Performance. *Business Intelligence Journal*, 2(2), 388-397.
- Pallant, J. (2011). A Step By Step Guide to Data Analysis Using SPSS. *SPSS Survival Manual*. 4<sup>th</sup> Edition.
- Parasuraman, A., Zeithmal, V. A. & Berry, L. L. (1988). SERQUAL: A Multiple Item Scale for Measuring Consumer Perceptions of Service Quality, *Journal of Retailing*, 64 (1), 12-40.
- Parasuraman, A., Zeithmal, V. A. & Berry, L. L. (1985). A Conceptual Model of Service Quality and Its Implications for Future Research. *Journal of Marketing*, 49, 41-50.
- Patrick, E. E. & Leonard, C.C (2012). Effective Supervision Of Instruction In Nigerian Secondary Schools: Issues In Quality Assurance. *Journal of Qualitative Education*, 8(1).
- Pekeling Perkhidmatan Bilangan 28 Tahun 2009, Jabatan Perkhidmatan Awam, Putrajaya.

- Pitts, D. & Jarry, E.M. (2005). Ethnic Diversity and Organizational Performance: Assessing Diversity Effects at the Managerial and Street Levels. *Unpublished Working Paper*. Georgia State University, United States of America.
- Politis, J. D. (2005). Self-Leadership Behavioural-Focused Strategies and Team Performance: The Mediating Influence of Job Satisfaction. *Leadership & Organization Development Journal*, 27 (3), 203-216.
- Prussia, G. E., Anderson, J. S. & Manz C.C. (1998). Self-Leadership and Performance Outcomes: The Mediating Influence of Self-Efficacy. *Journal of Organizational Behavior*, 19, 523-538.
- Rosen, E. D. (1993). Improving Public Sector Productivity: Concepts and Practice: SAGE Publications.
- Ryan, K. & Cooper, J. M. (1988). Those Who Can, Teach. CENGAGE Learning, 477-478.
- Rosenblatt, Z. (2001). Teachers' Multiple Roles and Skill Flexibility: Effects on Work Attitudes. *Educational Administration Quarterly*, 37(5), 684-708.
- Sahin, F. (2010). The Interaction of Self-Leadership and Psychological Climate on Job Performance. *African Journal of Business Management*, 5(5), 1787-1794.
- Salmiah Mohamad Amin (2004). Hubungan Antara Kompetensi Pekerja dan Prestasi Kerja di Kalangan Kakitangan Agensi Kerajaan Elektronik. *Unpublished Phd Thesis*. Universiti Utara Malaysia, Sintok: Kedah.
- Shamsuddin Bardan. (2010, Februari 21). Produktiviti Negara Amat Rendah. *Mingguan Malaysia*.
- Shimizu, T. & Nagata, S. (2003). Relationsip Between Coping Skills And Job Satisfaction Among Japanese Full-Time Occupational Physicians. *Environmental Health and Preventive Medicine*, 8, 118-123.
- Shonkoff, J. P., & Phillips, D. A. (2000). From Neuron to Neighborhoods: The Science Of Early Childhood Development. Washington: National Academy Press.
- Shore, L. M. & Martin, H. J. (1998). Job Satisfaction and Organizational Commitment In Relations To Work Performance And Turnover Intentions. *Human Relations*, 42(7), 625-638.
- Siggins, J. A. (1993). Job Satisfaction and Performance in a Changing Environment. *Library Trends*, 41(2), 299-315.
- Siti Zawiah Md. Dawal & Taha, Z. (2004). The Relationship Between Job Satisfaction And Job Factors In Industrial Work Design: A Case Study Of The Automotive Industries In Malaysia. *J. Human Ergol*, 33, 19-27.

- Skibba, J. S. (2002). Personality and Job Satisfaction: An Investigation Of Central Wisconsin Firefighters. *Unpublished Master Thesis*. University of Wisconsin-Stout, United State of America.
- Skirbekk, V. (2003). Age and Individual Productivity: A Literature Survey. Max Planck Institute for Demographic Research, Germany.
- Skogan, W. G. (1976). Efficiency and Effectiveness in Big City Police Departments. *Public Administration Review*, 278-286.
- Smith, K. L. (2009). A Brief Summary of Supervision Models. Dipetik daripada [http://www.gallaudet.edu/documents/academic/cou\\_supervisionmodels%5B1](http://www.gallaudet.edu/documents/academic/cou_supervisionmodels%5B1)
- Sonnentag, S. & Frese, M. (2002). Performance Concepts and Performance Theory. *Psychological Management of Individual Performance*, 1-25.
- Spenner, K. L. (1990), Skill: Meaning, Methods and Measures, *Work and Occupations*, 17, 4, 399-421
- Staklis, S. & Klein, S. (2010). Technical Skill Attainment And Post-Program Outcomes: An Analysis Of Pennsylvania Secondary Career And Technical Education Graduate. *National Research Center for Career and Technical Education*. University of Louisville, Kentucky.
- Stewart, J. & Walsh, K. (1992). Change in the Management of Public Services. *Public Administration*, 70(4), 499-518.
- Teo, T. S. H & King, W. R. (1996). Key Dimensions of Facilitators And Inhibitors For The Strategic Use Of Information Technology. *Journal of Management Information Systems*, 12 (4), 35-53.
- Toner, P. (2011). Workforce Skills and Innovation: An Overview Of Major Themes In The Literature. Dipetik pada 3 November 2012, daripada <http://www.oecd.org/sti/innovationinsciencetechnologyandindustry/46970941>.
- Velden, R. V. D. & Allen, J. (2005). The Role of Self-Assessment in Measuring Skills. Research Centre for Education and the Labor Market. Maastricht University, Netherlands.
- Wade, M. R., & Parent, M. (2001). Relationships Between Job Skills And Performance: A Study Of Webmasters. *Journal of Management Information Systems*, 18(3), 71-96.
- Willard R. & Daggett, E. D. *Jobs and the Skills Gap*. International Center for Leadership in Education, Rexford: New York.
- 15,400 Penjawat Awam Berprestasi Rendah Disiasat. (2011, Disember 10). Berita Harian.