

# 訓練需求與員工跳槽傾向關係之研究

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## 摘要

員工訓練需求與跳槽傾向之間的關係尚未能由既有文獻加以解釋，因此，本研究目的旨在以員工的角度來驗證不同的訓練需求與跳槽傾向的關係，並進一步研究與釐清員工滿意度與組織承諾對於訓練需求與跳槽傾向關係之中介效果。本研究透過問卷調查法，以台灣地區上市上櫃公司為抽樣母體，有效問卷487份，有效問卷回收率89.4%。以驗証性因素分析(confirmatory factor analysis, CFA)確立員工訓練需求等因素構面的建構效度與配適度。並使用線性結構關係模式(linear structure relationship model, LISREL)來分析構面之間的影響。結果本研究發現：員工的公司專屬訓練需求會影響其跳槽傾向，員工對公司專屬訓練需求愈高則其有跳槽傾向愈低。而員工產業專屬訓練需求與跳槽傾向有顯著的正向關係。員工訓練需求、工作滿足與組織承諾均有顯著的正向關係。組織承諾與工作滿足為訓練需求與跳槽傾向中介變數，兩者均顯示顯著的中介間接效果。人格內外控也增加解釋能力來預測工作者跳槽傾向。從研究發現中意含企業可透過了解員工訓練需求，並針對員工為何種訓練需求，而採行不同的因應策略，使企業能運用有限的訓練資源，得到最大的資源運用效率。

關鍵詞：訓練需求、工作滿足、組織承諾、跳槽傾向

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## 參考文獻

- 一、中文部份 彭台光，高月慈，林鉅夢(2006)，管理研究中的共同方法變異:問題本質、影響、測試和補救，*管理學報*，23(1)，77-98。
- 二、英文部分 Acemoglu, D., & Pischke, J. (1998). Why do firms train? Theory and evidence. *Quarterly Journal of Economics*, 113(1), 79-120.
- Ahmad, Z. K., & Bakar, R. A. (2003). The association between training and organisational commitment among the white-collar workers in Malaysia. *International Journal of Training and Development*, 7(3), 166-85. Alderfer, C. (1972). Human needs in organizational settings. New York: Free Press. Allport, G. W. (1947). The psychology of participation. *Psychological Review*, 54(3), 142-158. Angle, H. L., & Perry, J. L. (1981). An empiric assessment of organizational effectiveness. *Administrative Science Quarterly*, 26(1), 1-14. Alba-Ramirez, A. (1994). Self-employment in the midst of unemployment: The case of Spain and the United States. *Applied Economics*, 26(3), 189-204. Allen, D. G., Griffeth, R. W., Vardaman, J. M., & Aquino, K. (2009). Structural validity and generalisability of a referent cognitions model of turnover intentions. *Applied Psychology*, 58(4), 709-723. Allen, N. J., & Meyer, J. P. (1996). Organizational commitment: Evidence of career stage effects? *Journal of Business Research*, 26(1), 49-61. Andersson, L. M., & Bateman, T. S. (1997). Cynicism in the workplace: Some causes and effect. *Journal of Organizational Behavior*, 18(5), 449-469. Anderson, J. C., & Gerbing, D. W. (1988). Structural equation modeling in practice: A review and recommended two-step approach. *Psychological Bulletin*, 103(3), 411-423. Ang, S., Slaughter, S., & Ng, K. Y. (2002). Human capital and institutional determinants of information technology compensation: modeling multilevel and cross-level interactions. *Management Science*, 48(11), 427-445.
- Bagozzi, J. C., & Yi, Y. (1988). On the evaluation of structural equation model. *Academy of Marketing Science*, 16(1), 74-94. Bannister, B. D., & Griffeth, R. W. (1986). Applying a causal analytic framework to the Mobley, Horner, and Hollings worth(1978) turnover model: A useful reexamination. *Journal of Management*, 12(3), 433-443. Barnes, W. F., & Jones, E. B. (1974). Differences in male and female quitting. *Journal of Human Resources*, 9(4), 439-451. Barrett, A., & O'Connell, P. (2001). Does training generally work? The returns to in-company training. *Industrial and Labour Relations Review*, 54(3), 647-662. Bartel, A. P. (1994). Productivity gains for the implementation of employee training programs. *Industrial Relations*, 33(4), 411-28. Bartel, A. P. (2000). Measuring the employer's return on investment in training: Evidence form the literature. *Industrial Relations*, 39(3), 502-24. Bartleet, K. R. (2001). The relationship between training and organizational commitment: A study in the health care field. *Human Resource Development Quarterly*, 12(4), 335-352. Beatrice, R. G. (1980). Apprenticeship in Foreign Countries. Washington, Dallas: U. S. Department of Labor. Becker, G. S. (1962). Investment in human capital: A theoretical analysis. *Journal of Political Economy*, 70(1), 9-49. Bentler, P. M., & Bonnet, D. G (1980). Signifiance tests and goodness-of-fit in the analysis of covariance stucture. *Psychological Bulletin*, 88(3), 588-606. Berg, T. R. (1991). The importance of equity perception and job satisfaction in predicting employee intent to stay at television stations. *Group & Organization Studies* (1986-1998), 16(3), 268-284. Bishop, J. H. (1988). Do employers share the costs and benefits of general training. New York: Cornell University, Ithaca. Boshier, R. (1977). Motivational orientations re-visited: Life-space motives and the education participation scaie. *Adult Education*, 27(2), 89-115. Bollen, K. A. (1989). Structural equation with latent variables. New York: John Wiley & Sons. Bowen, D. E. (1982). Some unintended consequences of intention to quit. *The Academy of Management Review*, 7(2), 205-211. Brissett, M., & Nowicki, S. J. (1973). Internal versus external of reinforcement and reaction to frustration. *Journal of Abnormal and Social Psychology*, 25(1), 35-39. Buchanan, B. (1974). Building organizational commitment: The socialization of mangers inwork organization. *Administrative Science Quarterly*, 19(4), 533-546. Cambell, J. P., Dunnette, M. D., Lawler, E. E., & Weick, K. E. (1970). Managerial behavior, performance and effectiveness. New York: McGraw-Hill. Camp, R. R., Blanchard, P. N., & Huszczo, G. Z. (1986). Toward a more organizationally effective training strategy and practice: Evaluation. New Jewsey. Cattell, R. B. (1943). The desxription of personality: Basic trait resolved into clusters. *Journal of Abnormal and Social Psychology*, 38(4), 476-506. Cattell, R. B. (1965). The scientific analysis of personality. Baltimore: Penguin. Chen, T. Y., Chang, P. L., & Yeh, C. W. (2004). A study of career needs, career development programs, job satisfaction and the turnover intensity of R & D personnel. *Career Development International*, 9(4), 424-437. Chiu, R. K., & Francesco, A. M. (2003). Dispositional traits and turnover intention: Examining the mediating role of job satisfaction and affective commitment. *International Journal of Manpower*, 24(3), 284-298. Chiu, R. K., & Kosinski, F. A. (1997). Relationships between dispositional traits and self-reported job satisfaction and distress: An investigation of nurses and teachers in Hong Kong. *Journal of Managerial Psychology*, 12(2), 71-84. Choe, J. M. (2004). The relationships among management accounting

information, organizational learning and production performance. *Journal of Strategic Information Systems*, 13(1), 61-85 Churchill, G. A. (1979). A paradigm for development better measure of marketing construct. *Marketing Research*, 16(1), 45-71. Clark, C. S. (1990). Social processes in work group: A model of the effect of involvement, credibility, and goal linkage on training success. Unpublished doctoral dissertation, Department Of Management, University of Tennessee, Knoxville. Cotton, J. L. & Tuttle, J. M. (1986). Employee turnover: A meta-analysis and review with implications for research. *Academy of Management Review*, 11(1), 55-70. Coyle-Shapiro, J. A. M., & Morrow, P. C. (2006). Organizational and client commitment among contracted employees. *Journal of Vocational Behavior*, 68(3), 416-431. Couger, J. D., Oppermann, E. B., & Amoroso, D. L. (1994). Changes in motivation of I. S. managers-comparison over a decade. *Information Resources Management Journal*, 7(2), 5-13. Cribbin, J. J. (1972). The protean managerial leader. *Personnel*, 49(2), 8-15. Cropanzano, R., Rupp, D. E., & Byrne, Z. S. (2003). The relationship of emotional exhaustion to work attitudes, job performance, and organizational citizenship behaviors. *Journal of Applied Psychology*, 88(1), 160-169. Cropanzano, R., & Byrne, Z. (2001). When it's time to stop writing policies: An inquiry into procedural injustice. *Human Resource Management*, 11(1), 31-54. Dalton, D. R., Todor, W. D., & Krackhardt, D. M. (1982). Turnover overstated: The functional taxonomy. *Academy of Management Review*, 7(1), 118-119. Day, D. V., & Silverman, S. B. (1989). Personality and job performance: Evidence of incremental validity. *Personnel Psychology*, 42(1), 25-36. Decenzo, D. A., & Robbins, S. P. (2001). *Human Resource Management*. New York: John Wiley & Sons. De Grip, A., Heijke, H., & Willems, E. (1998). Training and mobility. *The Netherlands Journal of Social Sciences*, 34(1), 78-98. Dothan, U., & Williams, J. (1991). Education as an option. *Journal of Business*, 54(1), 117-139. Dunham, R. B., Grube, J. A., & Castaneda, M. B. (1994). Organizational commitment: The utility of an integrative definition. *Journal of Applied Psychology*, 79(3), 370-380. Egan, T. M., Yang, B., & Bartlett, K. R. (2004). The effects of organizational learning culture and job satisfaction on motivation to transfer learning and turnover intention. *Human Resource Development Quarterly*, 15(3), 279-301. Federico, S. M., & Federico, P. A. (1976). Predicting women ' s turnover as a function of extent of met salary expectations and biodemographic data. *Personnel Psychology*, 29(4), 559-571. Feuer, L. M., Glick, H., & Desai, A. (1987). Is firm-sponsored education viable? *Journal of Economic Behaviour and Organization*, 8(3), 121-136. Fiske, D. W. (1947). Consistency of the factorial strucutres of personality ratings from different source. *Journal of Abnormal and social psychology*, 44, 329-344. Forrier, A., & Sels, L. (2003). Flexibility, turnover and training. *International Journal of Manpower*, 24(2), 148-160. Francesco, S. (1999). Human resource development. Australia: Robert Coco. Gaertner, K. N., & Nollen, S. D. (1989). Career experiences, perceptions of employment practices and psychological commitment to the organization. *Human Relations*, 42(11), 975-991. Galton, F. (1984). Measurement of character. *Fortnightly Review*, 36, 179-185. Gemignani, J. (1998). Employee turnover costs big bucks. *Business and Health*, 16(4), 10-14. George, J. M., & Jones, G. R. (2000). The role of time in theory and theory building. *Journal of Management*, 26(4), 657-684. Ghiseli, E. E. (1974). Some perspective for industrial psychology. *American Psychologist*, 29, 80-87. Gomez, P. J., Lorente, J. C., & Cabrera, R. V. (2005). Organizational learning capability: A proposal of measurement. *Journal of Business Research*, 58(6), 715-725. Green, F., Chin, S., & Wilkinson, D. (1996). An analysis of workplace training and skill shortages. *Research Studies RS7*, Department for Education and Employment, London. Griffeth, R. W., Horn, P. W., & Gaertner, S. (2000). A meta-analysis of antecedents and correlates of employee turnover: Update, moderator tests, and research implications for the next millennium. *Journal of Management*, 26(3), 463-472. Griffeth, R. W., & Horn, P. W. (2001). *Retaining valued employees*. Thousand Oaks, CA: Sage Publications. Groot, W., & Verberne, M. (1997). Aging, job mobility, and compensation. *Oxford Economic Papers*, 49(3), 380-403. Grossberg, A. J. (2000). The effects of formal training on employment duration. *Industrial Relations*, 39(4), 578-588. Hair, J., Anderson, R., Tatham, R., & Black, W. (1998). *Multivariate Data Analysis*. Macmillan New York. Hall, D. T. (1986). Individual and organization career development in changing times. *Career Development in Organization*, San Francisco: Jossey-Bass Publishers, 23. Hansson, B. (2007). Training on company performance; Results from an international HRM survey. *Personnel Review*, 36(2), 311- 322. Hansson, B., Johanson, U., & Leitner, K. H. (2004). The impact of human capital and human capital investments on firm performance: Evidence from the literature and European survey results. In Descy, P. and Tessaring, M. (Eds), *CEDEFOP third report on vocational training reserch in europe*, background report(vol3, pp.260-319). Office for Official Publications of the European Communities, Luxembourg. Hausknecht, J. P., Rodda, J., & Howard, M. J. (2009). Targeted employee retention: Performance-based and job-related differences in reported reasons for staying. *Human Resource Management*, 48(2), 26-35. Hayduk, L. A. (1987). *Structural equation modeling with LISREL*. Baltimore, MD: Johns. Hopkins University Press. Hellriegal, D., & White, G. (1973). Turnover of professionals in public accounting: A comparative analysis. *Personnel Psychology*, 26(2), 239-246. Hicks, W. D., & Klimoski, R. J. (1987). Entry into training programs and its effects on training outcomes: A field experiment. *Academy of Management Journal*, 30(3), 542-552. Horn, P. W., & Griffeth, R. W. (1995). Employee turnover. Cincinnati. OH: South Western. Hrebiniak, L. G., & Alutto, J. A. (1972). Personal and related factor, in the development of organizational commitment. *Administrative Science Quarterly*, 17(4), 559-560. Hu, L. T., & Bentler, P. M. (1999). Cutoff criteria for fit indexes in covariance structure analysis: Conventional criteria versus new alternatives. *Structural Equation Modeling*, 6, 1-55. Husen, T., & Postlethwaife, N. T. (1985). *The internal encyclopedia of education*. New York: Pergamon Press Ltd. Igbaria, M., & Guimaraes, T. (1993). Antecedents and consequences of job satisfaction among information center employees. *Journal of Management Information Systems*, 9(4), 145-175. Igbaria, M., & Siegel, S. R. (1992). The reasons for turnover of information systems personnel. *Information & Management*, 23(6), 321-330. Iverson, R. D., & Deery, M. (1997). Turnover culture in the hospitality industry. *Human Resource Management Journal*, 7(4), 71-82. Jackofsky, E., & Peters, L. (1983). Job turnover versus company turnover: Reassessment of the march and simon participation hypothesis. *Journal of Applied Psychology*, 68(3), 490-495. Jarvenpaa, S. L., Tractinsky, N., & Vitale, M. (2000). Consumer trust in an internet store. *Information Technology and Management*, 1(1), 45-71. Joiner, T. A., Bartram, T., & Garreffa, T. (2004). The effects of mentoring

on perceived career success, commitment and turnover intentions. *Journal of American Academy of Business*, 5(2), 164. Judge, T. A., & Bono, J. E. (2001). Relationship of coreself-evaluation-self-esteem, generalized self-efficacy, locus of control, and emotional stability-with job satisfaction and job performance: A meta-analysis. *Journal of Applied Psychology*, 86(1), 80-92. Kanter, R. M. (1968). Commitment and social organization: Study of commitment mechanisms in utopian commitment. *American Sociological Review*, 33(4), 499-517. Kim, S. (2006). Public service motivation and organizational citizenship behavior in Korea. *International Journal of Manpower*, 26(8), 722-40. Kleiman, L. S. (2000). Human Resource Management: A Tool for Competitive Advantage. Cincinnati: South-Western College Pub. Knoke, D., & Kalleberg, A. (1994). Job training in U.S. organizations. *American Sociological Review*, 59(4) 537-546. Knoke, D., & Ishio, Y. (1994). Occupational training, unions, and internal labor markets. *The American Behavioral Scientist*, 37(7), 992-1007. Lang, D. L. (1992). Organisational culture and commitment. *Human Resource Development Quarterly*, 3(2), 191-196. Lee, T. W., & Mitchell, T. R. (1994). An alternative approach: The unfolding model of voluntary employee turnover. *Academy of Management Review*, 19(1), 51-89. Locke, E. (1969). What is job satisfaction? *Organizational Behavior and Human Performance*, 4(4), 309-336. Lopez, S. P., Peon, J. M. M., & Ordas, C. J. V. (2005). Organizational learning as a determining factor in business performance. *The Learning Organization*, 12(3), 227-240. Lovett, S., & Coyle, T. (2003). An empirical study on job differentiation and tenure. *Journal of Applied Management and Entrepreneurship*, 8(3), 3-21. Lovett, S., Hardebeck, S., Coyle, T., & Torres Solis, J. R. (2006). Job satisfaction and organizational tenure in three mexican assembly plants. *Journal of Applied Management and Entrepreneurship*, 11(1), 36-57. Lum, L., Kervin, J., Frank, C., Reid, F., & Sirola, W. (1998). Explaining nursing turnover intent: Job satisfaction, pay satisfaction, or organizational commitment? Summary. *Journal of Organizational Behavior*, 19(3), 305-320. Martin, T. N. (1979). A contextual model of employee turnover intentions. *Academy of Management Journal*, 22(2), 313-324. Marsh, R. M., & Mannari, H. (1977). Organizational commitment and turnover: A prediction study. *Administrative Science Quarterly*, 22(1), 57-75. McCrae, R. R., & Costa, P. T. (1990). Rotation to maximize the construct validity of factors in the NEO personality inventory. *Multivariate Behavioral Research*, 23(4), 107-124. McCrae, R. R., & Costa, P. T. (1992). An introduction of the five-factor model and its applications. *Journal of Personality*, 60(2), 175-215. McCrae, R. R., Costa, P. T., & Busch, C. M. (1986). Evaluating comprehensiveness in personality systems: The California Q-set and the five-factor model. *Journal of Personality*, 54(4), 430-446. McDermott, K., Laschinger, H. K. S., & Shamian, J. (1996). Work empowerment and organizational commitment. *Nursing Management*, 27(5), 44-47. McGehee, W., & Thayer, P. W. (1961). Training in business and industry. New York: Wiley and Sons, 5-11. Metz, L., & Tharenou, P. (2001). Women's career advancement. *Group & Organization Management*, 20(3), 312-342. Meyer, P. J., & Smith, A. C. (2000). HRM practices and organisational commitment: Test of a mediation model. *Canadian Journal of Administrative Sciences*, 17(4), 319-331. Michaels, C. E., & Spector, P. E. (1982). Cause employee turnover: A test of the mobley, griffeth, hand, and meglio model. *Journal of Applied Psychology*, 67(1), 53-59. Miller, V. A. (1987). The history of training. New York: McGraw-Hill Book Co. Mobley, W. H. (1982). Some unanswered questions in turnover and withdrawal research. *Academy of Management*, 7(1), 111-115. Mobley, W. H., Giffeth, R. W. H., Hand, H., & Meglion, B. M. (1979). Review and conceptual analysis of the employee turnover process. *Psychological Bulletin*, 86, 493-522. Mohammed, A. S. A., & Marquardt, M. J. (2007). Relationship between employees' beliefs regarding training benefits and employees' organizational commitment in a petroleum company in the State of Qatar. *International Journal of Training and Development*, 11(1), 49-70. Montes, F. J. L., Moreno, A. R., & Morales, V. G. (2005). Influence of leadership support and teamwork cohesion on organizational learning, innovation and performance: An empirical examination. *Technovation*, 25(10), 1159-1172. Meitzen, M. E. (1986). Differences in male and female job-quitting behavior. *Journal of Labor Economics*, 4(2), 151-167. Moore, M. L., & Dutton, P. (1978). Training needs analysis: Review and critique. *Academy of Management Review*, 3(3), 532-545. Morris, J. H., Steers, R. M., & Koch, J. L. (1979). Influence of organization structure on role conflict and ambiguity for three occupational groupings. *Academy of Management Journal*, 22(1), 58-67. Morris, J., & Sherman, J. D. (1981). Generalizability of an organizational commitment model. *Academy of Management Journal*, 24(3), 512-526. Mowday, R. T., Steers, R. M., & Porter, L. W. (1979). The measurement of organizational commitment. *Journal of Vocational Behavior*, 14(2), 224-247. Naquin, S. S., & Holton, E. F. (2002). The effects of personality, affectivity, and work commitment on motivation to improve work through learning. *Human Resource Development Quarterly*, 13 (4), 357-376. Nelson, R. R., Whitener, E. M., & Philcox, H. H. (1995). The assessment of end-user training needs association for computing machinery. *communications of the ACM*, 38(7), 27-39. Newton, K. A. (1993). Development of Trainee Self-efficacy, Motivation to Learn, and Motivation to Transfer Learning. Unpublished doctoral dissertation, University of Texas A. & M. Ng, T. W. H., Butts, M. M., Vandenberg, R. J., DeJoy, D. M., & Wilson, M. G. (2006). Effects of management communication, opportunity for learning, and work schedule flexibility on organizational commitment. *Journal of Vocational Behaviour*, 68(3), 474-489. Nordhaug, O. (1989). Reward functions of personnel training. *Human Relations*, 42(5), 373-388. Nunnally, J. C. (1978). Psychometric theory. New York: McGraw-Hill. Pilling, B. K., Donthu, N., & Henson, S. (1999). Accounting for the impact of territory characteristics on sales performance: Relative efficiency as a measure of salesperson performance. *The Journal of Personal Selling & Sales Management*, 19(2), 35-45. Pluta, P. L., & Fugate, T. (2009). Effective training. *Journal of GXP Compliance*, 13(3), 10-14. Podsakoff, P. M., MacKenzie, S. B., Lee, J. Y., & Podsakoff, N. P. (2003). Common method biases in behavioral research: A critical review of the literature and recommended remedies. *Journal of Applied Psychology*, 88(5), 879-903. Podsakoff, P. M., & Organ, D. W. (1986). Self-reports in organizational research: Problems and prospects. *Journal of Management*, 12(4), 69-82. Porter, L. W., & Lawer, R. E. (1973). Organizational, work, and personal factors in employee turnover and absenteeism. *Psychological Bulletin*, 80(2), 151-176. Porter, L. W., Steers, R. M., Mowday, R. T., & Boulian, P. V. (1974). Organizational commitment, job satisfaction, and turnover among psychiatric technicians. *Journal of Applied Psychology*, 59(5), 603-609. Price, J. L., & Mueller, C. W. (1986). On the causal order of job satisfaction and organizational commitment. *Academy of Management*

Journal, 29(4), 847-858. Price, J. H. (1972). Hankbook of organization measurement. Lexington, MA: Health & Company. Ritzen, J. M. M. (1989). Market failure for general training and remedies, paper for the Robert M. La Follette Symposium on Market Failure for Training, 11-12. Robbins, S. P. (1996). Organization behavior: Concept, controversies, and applications(7th ed.). Englewood Cliffs, New Jersey: Prentice-Hall. Robbins, S. P. (1998). Organizational behavior(8th ed.).Upper Saddle River, New Jersey: Prentice Hall. Robbins, S. P. (2001). Organizational behavior-concepts, controversies, and applications(6th ed.). New Jersey: Prentice-Hall. Robbins, S. P. (2001). Organizational behavior(8th ed.). New Jersey: Prentice-Hall. Rose, R. C., Kumar, N., & Pak, O. G. (2009). The effect of organizational learning on organizational commitment, job satisfaction and work performance. *Journal of Applied Business Research*, 25(6), 55-65. Rotter, J. (1954). Social learning and clinical psychology. Englewood Cliffs, New Jersey: Prentice-Hall. Rotter, J. B. (1966). Generalized expectancies for internal versus external control of reinforcement. *Psychological Monographs*, 80(1), 1-27. Rowden, R. W., & Conine, C. T. (2005). The impact of workplace learning and job satisfaction in small US commercial banks. *Journal of workplace Learning*, 17(4), 215-230. Salancik, G. R. (1977). New directions in organizational behavior. Chicago: St. Clair Press. Schwab, D. P. (2005). Research methods for organization studies. Mahwah, New Jersey: Lawrence Erlbaum Associates. Scott, J. E. (1994). The measurement of information systems effectiveness: evaluating a measuring instrument. Proceedings of the Fifteenth International Conference on Information Systems, Vancouver, British Columbia. 111-128. Seashore, S. E., & Taber, T. D. (1975). Satisfaction and their correlation. *American Behaviorand Scientist*, 18, 333-368. Sheldon, M. E. (1971). Investment and involvements as mechanisms producing commitment to the organization. *Administrative Science Quarterly*, 16(2), 143-157. Shields, M. A., & Ward, M. E. (2001). Improving nurse retention in the national health service in England: The impact of job satisfaction on intentions to quit. *Journal of Health Economics*, 20, 677-690. Shim, S., Lusch, R., & O ' Brien, M. (2002). A hierarchical model of values, leadership, job satisfaction and commitment: Human resources management implications for the retail industry. *Journal of Marketing Channels*, 10(1), 65-87. Sieben, I., & De Grip, A. (2004). Training and expectations on job mobility in the call centres sector. *Journal of European Industrial Training*, 28(2-4), 257-265. Smith, F. J., & Porter, L. W. (1977). What do executives really think about their organizations? *Organizational Dynamics*, 6(2), 68- 76. Smith, P. C., Kendall, L. J., & Hullin, C. L. (1969). The measure of satisfaction in work and retirement. Chicago: Rand McNally. Somers, M. J. (1995). Organizational commitment, turnover and absenteeism: An examination of direct and interaction effects. *Journal of Organizational Behavior*, 16(1), 49-58. Sousa-Poza, A., & Henneberger, F. (2004) Analyzing job mobility with job turnover intentions: An international comparative study. *Journal of Economic Issues*, 38(1), 113-137. Spencer, D. G., Strees, R. M., & Mowday, R. T. (1983). An empirical test of the inclusion of job search linkages into Mobley's model of turnover decision process. *Journal of Occupational Psychology*, 56(2), 137-144. Spector, P. E. (1982). Behavior in organization as a function of employee ' s locus of control. *Psychological Bulletin*, 91(3), 482-497. Spector, P. E. (1994). Job satisfaction survey. Tampa, FL: University of South Florida. Spector, P. E. (1997). Job satisfaction: Application, assessment, causes, and consequences. Thousand Oaks, California: Sage. Spector, P. E., Dwyer, D. J., & Jex, S. M. (1988). The relationship of job stressors to affective, health, and performance outcomes: A comparison of multiple data sources. *Journal of Applied Psychology*, 73(1), 11-19. Staw, B. M. (1977). Two side of commitment, Paper presented at the National Academy of Management. Orlando, Florida. Staw, B. M. (1981). The escalation of commitment to a course of action. *American Management Review*, 6(4), 577-587. Stevens, M. (1994). A theoretical model of on-the-job training with imperfect competition. *Oxford Economic Papers*, 46(4), 537- 562. Stufflebeam, D. L. (1974). Alternative approaches to educational evaluation: A self -study guide for educators. In W. J. Popham (Ed.), *Evaluation in education*. Berkeley, California: McCutahan. Szilagyi, A. D. (1979). Keeping employee.Turn over under control, Rersonnel. The Mangement of people at work, 42-45. Szilagyi, A. D. (1980). Causal inferences between leader reward behaviour and subordinate performance, absenteeism, and work satisfaction. *Journal of Occupational Psychology*, 53(3), 195- 208. Tan, A. (1993). Does affective disposition moderate the relationship between job satisfaction and voluntary turnover? *Journal of Applied Psychology*, 78(3), 395-401. Tan, D. S. K., & Akhtar, S. (1998). Organizational commitment and experienced burnout: An exploratory study fiom a Chinese cultural perspective. *International Journal of Organizational Analysis*, 6(4), 310-333. Thatcher, J., Stepina, L., & Boyle, R (2003). Turnover of IT workers: Examining empirically the influence of attitudes, job characteristics, and external markets. *Journal of Management Information systems*, 19(3), 231-261. Tharenou, P. (1991). Managers' training needs and preferred training strategies. *The Journal of Management Development*, 10(5), 46-59. Tett, R. P., & Meyer, J. P. (1993). Job satisfaction, organizational commitment, turnover intention, and turnover: Path analyses based on meta-analytical findings. *Personnel Psychology*, 46(2), 259 -293. Torkzadeh, G., & Doll, W. T. (1999). The development of a tool for measuring the perceived impact of information technology on work. *The International Journal of Management Science*, 27(3), 327-339. Trevor, C. O. (2001). Interactions among actual ease of movement determinants and job satisfaction in the prediction of voluntary turnover. *Academy of Management Journal*, 44(4), 621-638. Tsai, P., Yen, C.Y., Huang, L., & Huang, I. (2007). A study on motivating employee's learning commitment in the post-downsizing era: Job satisfaction perspective. *Journal of World Business*, 42 (2), 157-69. Valenzi, E., & Dessler. G. (1978). Relationships of leader behavior, subordinate role ambiguity and subordinate job satisfaction. *Academy of Management Journal*, 21(4), 671-678. Van den Berg, G. J. (1992). A structural dynamic analysis of job turnover andthe costs associated with moving to another job. *The Economic Journal*, 102(9), 1116-1133. Veiga, J. F. (1981). Plateaued versus nonplateaued manager: Career patterns, attitudes, and path potential. *Academy of Management Journal*, 24(3), 566-578. Vroom, V. H. (1964). Work and motivation. New York: Wiley. Watkins, K. E., & Marsick, V. J. (2003). Demonstrating me value of an organization's learning culture: me dimensions of the learning organization questionnaire. *Advances in Developing Human Resources*, 5(2), 132-51. Weiss, D. J., Davis, R. V., England, G. W., & Lofquist, L. H. (1967). Manual for the Minnesota Satisfaction Questionnaire, Minneapolis Studies in Vocational Rehabilitation, 22, Bulletin 45, University of Minnesota, Industrial Relations Center. Weiss, H., & Sherman, J. (1973). Internal-external control as a predictor of task effect and satisfaction

subsequent to failure. *Journal of Applied Psychology*, 57(2), 132-136. Williams, L. J., & Hazer, J. T. (1986). Antecedents and consequences of satisfaction and commitment in turnover models: A reanalysis using latent variable structural equation methods. *Journal of Applied Psychology*, 71(2), 219-231. Wu, F., & Cavusgil, S. T. (2006). Organizational learning and joint value creation in interfirm relationships. *Journal of Business Research*, 59(1), 81-89. Yeh, Y. M. C. (2007). A renewed look at the turnover model for accounting knowledge work force. *Journal of American Academy of Business*, 11(1), 103-109. Yurchisin, J., Park, J., & O ' Brien, M. (2010). Effects of ideal image congruence and organizational commitment on employee intention to leave. *Journal of Retailing and Consumer Services*, 17(5), 406-414. Zeffane, R. M., & Gul, F. (1995). The effects of task characteristics and sub-unit structure on information processing: An empirical study. *Information Processing Management*, 29(1), 21-37. Zwick, T. (2002). Training and firm productivity, panel evidence for Germany, Research Paper No. 23, ESRC Centre on Skills, Knowledge and Organisational Performance (SKOPE), Oxford.