International Journal of Educational Management 2018 vol.32 N6, pages 1041-1055

Arrangement of cooperation between labour market and regional vocational education system

Terentyeva I., Kirillova O., Kirillova T., Pugacheva N., Lunev A., Chemerilova I., Luchinina A. *Kazan Federal University, 420008, Kremlevskaya 18, Kazan, Russia*

Abstract

© 2018, Emerald Publishing Limited. Purpose: Modern educational environment in the system of vocational education focuses on the requirements of labour market and those of employers to the content of graduates' professional competencies. Thus, the purpose of this paper is to develop practical guidance on the arrangement of cooperation between labour market and regional vocational education system. Design/methodology/approach: Participative approach allowed considering the cooperation between labour market and regional system of vocational education as the process aimed at creating management tools for formation, use, development of human resources. The research involved 300 teachers, 400 students, 100 employers, who found out the effectiveness criteria for the cooperation between labour market and vocational education system. Findings: The findings reveal national models characteristics and universal tools for cooperation between vocational education institutions and enterprise. National models characteristics allow identifying the most advantageous cooperation tools; comparing suggested tools with the experience of others and thereby assessing their relevance and implementation risks. Research limitations/implications: The research results allow us to plan strategies for further studies of this problem, which are related to the development of models for cooperation between labour market and vocational education system. Practical implications: The identification of universal tools for cooperation between vocational education institutions and enterprise promotes the integration of national vocational education systems into national educational space. The materials of the paper can be useful for university leaders and professors; employees of centres for professional advancement and retraining in selecting and structuring the content of academic and teaching staff's advanced training. Social implications: The revealed criteria contribute to vocational education programmes integration, connection between professional and educational standards, students' professional identity. Originality/value: The effectiveness of the cooperation between labour market and vocational education system will be improved by studying national models and identifying the most advantageous cooperation tools (modular training, voluntary social/ecological year, educational resources integration, state and public management, clustering vocational education institutions and industry companies). This will allow comparing the suggested tools for collaboration between labour market and vocational education system with the experience of others and thereby assess their relevance and implementation risks. Improving the cooperation between labour market and vocational education system will be successful provided that universal tools for cooperation (socio-economic, educational, practical, innovative and technological) are identified, which promotes the integration of national vocational education systems into national educational space. The effectiveness of cooperation between labour market and vocational education system will increase on condition of criterion assessment (clustering, subjectivity, transdisciplinarity), promoting vocational education programmes integration, connection between professional and educational standards, students' professional identity, students' engagement in the development and implementation of research and production projects, stepped formation of professional competencies.

http://dx.doi.org/10.1108/IJEM-10-2017-0296

Keywords

Cooperation between vocational education institutions and enterprise, Educational resources integration, Requirements of labour market, State and public management, Students' professional identity, Vocational education programmes integration

References

- [1] Ahmed, T. and Chattopadhyay, R. (2016), "Return to general education and vocational education & training in Indian context: policy implications", International Journal of Educational Management, Vol. 30 No. 3, pp. 370-385
- [2] Akhmetov, L.G., Khramova, N.A., Sychenkova, A.V., Chudnovskiy, A.D., Pugacheva, N.B., Pavlushin, A.A., Varlamova, M.V. and Khilsher, V.A. (2016), "Selective support for the development of regional vocational education services: the Russian experience", International Review of Management and Marketing, Vol. 6 No. 2S, pp. 127-134
- [3] Bender, K.A. and Heywood, J.S. (2017), "Educational mismatch and retirement", Education Economics, Vol. 25 No. 4, pp. 347-365
- [4] Brunello, G. and Rocco, L. (2017), "The labor market effects of academic and vocational education over the life cycle: evidence based on a British cohort", Journal of Human Capital, Vol. 11 No. 1, pp. 106-166
- [5] Bundesministerium für Bildung und Forschung (2017), "The German vocational training system", available at: www.bmbf.de/ (accessed 3 October 2017)
- [6] Danish Ministry of Education (2017), "Educational and vocational guidance", available at: http://eng.uvm.dk/ (accessed 3 October 2017)
- [7] Department for Education (2017), "Education and learning", available at: www.gov.uk/government/organisations/department-for-education (accessed 3 October 2017)
- [8] Dougherty, S.M. and Lombardi, A.R. (2016), "From vocational education to career readiness: the ongoing work of linking education and the labor market", Review of Research in Education, Vol. 40 No. 1, pp. 326-355
- [9] Education in Scotland (2017), "Policy. Universities", available at www.gov.scot/Topics/Education/UniversitiesColleges/16640 (accessed 3 October 2017)
- [10] Ehrlich, I., Li,.D. and Liu, Z. (2017), "The role of entrepreneurial human capital as a driver of endogenous economic growth", Journal of Human Capital, Vol. 11 No. 3, pp. 310-351
- [11] European Commission (2017), "Best procedure project 'Entrepreneurship in vocational education and training'", available at: http://ec.europa.eu/DocsRoom/documents/10446/attachments/1/translations/en/renditions/native (accessed 3 October 2017)
- [12] Freiwilliges Ökologisches Jahr (2017), "Förderverein Ökologische Freiwilligendienste e. V.", available at: www.foej.de/ (accessed 3 October 2017)
- [13] Freiwilliges Soziales Jahr (2017), "Infos für Interessierte am FSJ", available at: www.pro-fsj.de/ (accessed 3 October 2017)
- [14] Frick, B. and Maihaus, M. (2016), "The structure and determinants of expected and actual starting salaries of higher education students in Germany: identical or different?", Education Economics, Vol. 24 No. 4, pp. 374-392
- [15] Gast, I., Schildkamp, K. and van der Veen, J. (2017), "Team-based professional development interventions in higher education: a systematic review", Review of Educational Research, Vol. 87 No. 4, pp. 707-735
- [16] Görlitz, K. and Tamm, M. (2016), "Revisiting the complementarity between education and training the role of job tasks and firm effects", Education Economics, Vol. 24 No. 3, pp. 261-279
- [17] Gutiérrez, M.P. and Morales, J.A. (2015), "Lozano La formación de ciudadanos: conceptualización y desarrollo de la competencia social y cívica", Educación XX1, Vol. 18 No. 1, pp. 259-283
- [18] Haussen, T. and Uebelmesser, S. (2016), "Student and graduate migration and its effect on the financing of higher education", Education Economics, Vol. 24 No. 6, pp. 573-591

- [19] Hoeckel, K. (2008), Costs and Benefits in Vocational Education and Training, OECD Publishing, Paris, p. 17, available at: www.oecd.org/education/innovation-education/41538706.pdf (accessed 3 October 2017)
- [20] Hyland, T. (2017), "Mindful working and skilful means: enhancing the affective elements of vocational education and training through the ethical foundations of mindfulness", in Maclean, R. (Ed.), Competence-Based Vocational and Professional Education, Springer International Publishing, Cham, pp. 145-164
- [21] ILO (2017), available at: www.unrussia.ru/en/agencies/international-labour-organization-ilo (accessed 3 October 2017)
- [22] IOM (2017), available at: www.unrussia.ru/en/agencies/international-organization-migration-iom (accessed 3 October 2017)
- [23] Ivanov, V.G., Barabanova, S.V., Shagieva, R.V., Chikisheva, N.M., Lunev, A.N., Volkova, N.V., Nabiullina, K.R. and Spirina, E.V. (2016), "The essence and content of state regulation of services development in conditions of increasing autonomy of federal state entities", International Review of Management and Marketing, Vol. 6 No. 2S, pp. 149-154
- [24] Kalfa, E. and Piracha, M. (2017), "Immigrants' educational mismatch and the penalty of over-education", Education Economics, Vol. 25 No. 5, pp. 462-481
- [25] Kamasheva, Y.L., Goloshumova, G.S., Goloshumov, A.Y., Kashina, S.G., Pugacheva, N.B., Bolshakova, Z.M., Tulkibaeva, N.N. and Timirov, F.F. (2016), "Features of vocational education management in the region", International Review of Management and Marketing, Vol. 6 No. 1, pp. 155-159
- [26] Kazan State University of Architecture and Engineering (2017), available at: www.kgasu.ru/sveden/common/ (accessed 3 October 2017)
- [27] Kennedy, M.M. (2016), "How does professional development improve teaching?", Review of Educational Research, Vol. 86 No. 4, pp. 945-980
- [28] Kuchinke, P.K. (2013), "Education for work: a review essay of historical, cross-cultural, and disciplinary perspectives on vocational education", Educational Theory, Vol. 63 No. 2, pp. 203-220
- [29] Lambert Review of Business-University Collaboration (2003), available at: www.hm-treasury.gov.uk/consultations_and_legislation/lambert/consult_lambert_index.cfm (accessed 3 October 2017)
- [30] Lumby, J. (2000), "Restructuring vocational education in Hong Kong", International Journal of Educational Management, Vol. 14 No. 1, pp. 16-23
- [31] Lunev, A.N. and Pugacheva, N.B. (2013a), "Selective support for the development of regional areas of professional educational services", Journal of Kazan State Technical University Named After A.N. Tupolev, Vol. 2 No. 2, pp. 316-319
- [32] Lunev, A.N. and Pugacheva, N.B. (2013b), "Scientific and methodical recommendations on the assessment of the quality and accessibility of public and municipal services", Society: Politics, Economics, Law, No. 4, pp. 15-27, available at: http://dom-hors.ru/eng/arkhiv-pep-2013/
- [33] Lunev, A.N., Pugacheva, N.B. and Stukolova, L.Z. (2013), "The essential characteristic of the regional services market", Concept, Vol. 12, pp. 96-100
- [34] Lunev, A.N., Pugacheva, N.B. and Stukolova, L.Z. (2014a), "Development strategies for professional educational services under the increasing autonomy of territories within the federal state", Actual Problems of Economics, Vol. 160 No. 1, pp. 215-220
- [35] Lunev, A.N., Pugachova, N.B. and Stukolova, L.Z. (2014b), "Socially oriented regional economic space as an instrument in managing the development of service sector", Actual Problems of Economics, Vol. 155 No. 5, pp. 247-250
- [36] Lunev, A.N., Pugacheva, N.B. and Stukolova, L.Z. (2014c), "Forms of integration of entities of the regional market of vocational education services", Concept, Vol. 1, January, pp. 61-65, available at: https://e-koncept.ru/2014/january.htm
- [37] Lunev, A., Pugacheva, N. and Stukolova, L. (2014d), "The essential characteristic of the regional services market", Modern European Researches, Vol. 1 No. 1, pp. 49-52
- [38] Lunev, A.N., Safin, R.S., Korchagin, E.A., Sharafutdinov, D.K., Suchkova, T.V., Kurzaeva, L.V., Nikishina, S.R. and Kuznetsova, N.A. (2016), "The mechanism of industrial educational clusters creation as managerial entities of vocational education", International Review of Management and Marketing, Vol. 6 No. 2S, pp. 166-171
- [39] Ministry of Education and Research Sweden (2017), available at www.government.se/government-of-sweden/ministry-of-education-and-research/ (accessed 3 October 2017)
- [40] OECD (2017), OECD Handbook for Internationally Comparative Education Statistics: Concepts, Standards, Definitions and Classifications, OECD Publishing, Paris, available at: http://dx.doi.org/10.1787/9789264279889-en (accessed 3 October 2017)
- [41] Pagano, M.A. (2017), Jobs and the Labor Force of Tomorrow: Migration, Training, Education, University of Illinois Press, Champaign, IL

- [42] Petridou, E. and Chatzipanagiotou, P. (2004), "The planning process in managing organisations of continuing education: the case of Greek vocational training institutions", International Journal of Educational Management, Vol. 18 No. 4, pp. 215-223
- [43] Professional Education in Germany (2017), "Professional education (from the student to the master) and state financial support", available at: www.web-globus.de/articles/professionalnoe_obrazovanie_v_germanii (accessed 3 October 2017)
- [44] Pugacheva, A.S., Filippova, V.P., Kon, A.Y., Dorzhieva, L.B., Silchenok, I.S., Pugacheva, N.B., Lunev, A.N. and Mustafina, A.A. (2016), "Market regulators of service spheres innovative development as a tool of regional socio-economic policy", International Review of Management and Marketing, Vol. 6 No. 2S, pp. 294-300
- [45] Pugacheva, N.B., Kirillova, T.V., Ovchinnikova, I.G., Kudyashev, N.K., Lunev, A.N., Pavlova, O.A., Kashina, S.G. and Valeyev, A.S. (2016), "The mechanism of state-public management of Vocational education in the region", International Review of Management and Marketing, Vol. 6 No. 2S, pp. 6-11
- [46] Pugacheva, N.B., Ezhov, S.G., Kozhanov, I.V., Kozhanova, M.B., Ogorodnikova, S.V., Oshaev, A.G., Timonin, A.I. and Goloshumova, G.S. (2016), "The model of self-realization readiness formation of research universities students in the process of civic education", International Review of Management and Marketing, Vol. 6 No. 1, pp. 128-133
- [47] Riphahn, R.T. and Zibrowius, M. (2016), "Apprenticeship, vocational training, and early labor market outcomes-evidence from East and West Germany", Education Economics, Vol. 24 No. 1, pp. 33-57
- [48] Rogošić, S. and Baranović, B. (2016), "Social capital and educational achievements: Coleman vs Bourdieu", Center for Educational Policy Studies Journal, Vol. 6 No. 2, pp. 81-100
- [49] Studying in Denmark (2017), "Find your study programme", available at: http://studyindenmark.dk/ (accessed 3 October 2017)
- [50] Tampieri, A. (2016), "Over-education and assortative matching in partnerships: a theoretical analysis", Education Economics, Vol. 24 No. 3, pp. 312-328
- [51] Tatarinova, I.P., Shevtsova, V.V. and Lunev, A.N. (2012), "Economic mechanisms of creation and effective development of industrial clusters", Economic and Humanitarian Research of Regions, Vol. 2, pp. 204-210
- [52] Tech Prep Education (2017), available at: www2.ed.gov/about/offices/list/ovae/pi/cte/tpreptopic2.html (accessed 3 October 2017)
- [53] Terentyeva, I.V., Mukhomorova, I.V., Perezhogina, O.N., Pugacheva, N.B., Lunev, A.N., Akhmetzyanova, G.N., Lezhnin, V.V. and Gainullina, R.R. (2016), "Development strategy of service sector in conditions of federal states entities autonomy increasing", International Review of Management and Marketing, Vol. 6 No. 2S, pp. 1-
- [54] Terentyeva, I.V., Starodubtsev, M.P., Timonin, A.I., Pugacheva, N.B., Zykova, N.N., Lunev, A.N., Ezhov, S.G. and Starikova, L.D. (2016), "Assessment of state services quality and availability in the socio-cultural sphere", International Review of Management and Marketing, Vol. 6 No. 1, pp. 122-127
- [55] The World Bank (2017), "Understanding poverty/topics/education", available at: www.worldbank.org/en/about (accessed 3 October 2017)
- [56] The World Trade Organization (2017), "Geneva-based training courses fact sheet", available at: www.wto.org/english/tratop_e/devel_e/train_e/gbc_factsheet_e.htm (accessed 3 October 2017)
- [57] US Department of Education (2017), "Tech-prep education", available at: www2.ed.gov/programs/techprep/index.html (accessed 3 October 2017)
- [58] UN (2017), available at: www.un.org/ru/index.html (accessed 3 October 2017)
- [59] Yepaneshnikov, V.V., Pugacheva, N.B., Goloshumova, G.S., Kuznetsova, V.V., Dobrovolskaya, L.V., Moiseeva, L.V., Garaganov, A.V. and Litvinenko, N.A. (2016), "Pedagogical management of civil education of research universities students", International Review of Management and Marketing, Vol. 6 No. 2S, pp. 23-27
- [60] Zamaletdinov, R.R., Yudina, N.P., Lavrentyeva, E.I., Savva, L.I. and Pugacheva, N.B. (2016), "Practical recommendations on the improvement of the effectiveness of anti-corruption policy in universities", International Review of Management and Marketing, Vol. 6 No. 2, pp. 390-396