

Associative Model of the Engineering Activities Quality and the Results of its Use

A.V. Zazhigalkin¹, FSAEI FVT Academy for Standardization, Metrology and Certification (Training) (FSAEI FVT ASMS), Dr. (Ec.)

A.I. Solyanik², Voronezh Branch of FSAEI FVT ASMS, Prof. Dr. (Tech.), solynik.ai@asms.ru

I.K. Andronchev³, Samara Branch of FSAEI FVT ASMS, Prof. Dr. (Tech.), andronchev.ik@asms.ru

M.G. Barinova⁴, Voronezh Branch of FSAEI FVT ASMS, metod@asms-vrn.ru

¹ Rector, Moscow, Russia

² Director, Voronezh, Russia

³ Director, Samara, Russia

⁴ Graduate Student, Voronezh, Russia

Citation: Zazhigalkin A.V., Solyanik A.I., Andronchev I.K., Barinova M.G. Associative Model of the Engineering Activities Quality and the Results of its Use, *Kompetentnost' / Competency (Russia)*, 2024, no. 4, pp. 4–11. DOI: 10.24412/1993-8780-2024-4-04-11

key words

model, quality, engineering activities, personnel training

We have considered the problem of connection between education and production through additional professional education of engineers. All factors of the proposed associative model determine the quality of engineering activities and contribute to the achievement of successful results in projects. An example of positive experience in using the electronic educational and methodological complex Competent metrologist and its methodological foundations in the system of additional professional education of engineers is given.

We have shown the necessity of applying the provisions of the proposed model of the engineering activities quality in the electronic educational and methodological complex for the training of engineering personnel. It is a set of electronic educational and methodological documentation, electronic educational resources, teaching aids, knowledge control and is intended to develop the competencies of students in accordance with the Federal State Educational Standard for higher education in the areas of training 27.03.01 Standardization and metrology (bachelor's degree) of full-time and part-time forms of study. The proposed approaches to training can be recommended for practical use.

References

1. Andreev A.L., Butyrin P.A., Gorokhov V.G. Sociology of technology, Moscow, *Al'fa*, 2009, 288 P.
2. Nekrasova N.A., Nekrasov S.I. Philosophy of technology: textbook. Part 2. Engineering and technological activities. Essence and phenomenon, Moscow, *MIIT*, 2010, 164 P.
3. Kugel' S.A., Nikandrov O.M. Young engineers. Sociological problems of engineering activities, Moscow, *Mysl'*, 2006, 208 P.
4. Litvinov B.V. Fundamentals of engineering activities, Moscow, *Mashinostroenie*, 2005, 288 P.
5. Methodology of engineering activities, St. Petersburg, *Vysshee voenno-morskoe inzhenernoe uchilishche im. F.E. Dzerzhinskogo*, 1998, 576 P.
6. Posupon'ko N.V., Posupon'ko A.A. On the philosophy of modern engineering activities, Moscow, *Lambert Academic Publishing*, 2013, 108 P.
7. Andronchev I.K. Examination of dissertation. Instructions and recommendations for an academic degree applicant, Samara, *SamGUPS*, 2009, 98 P.
8. Andronchev I.K., Lipatov A.I., Lukin N.F. The quality system environment of a linear railway enterprise, Samara, *SamGUPS*, 2010, 270 P.
9. Andronchev I.K. The concept of the development of science, education and technologies in the Samara Region on the basis of an interdisciplinary scientific and educational complex, Samara, *Samarskiy nauchnyy tsentr RAN*, 2016, 85 P.
10. Andronchev I.K. Educational and rehabilitation technologies in the system of additional education based on the educational and rehabilitation complex, Samara, *SamIIT*, 1999, 132 P.
11. Zazhigalkin A.V., Aronov I.Z., Papich L.V., *Standarty i kachestvo*, 2016, no. 5, pp. 20–24.
12. Il'zit V.E., Barinova M.G., Oleynik V.Yu., Solyanik A.I. Electronic educational and methodical complex Competent metrologist. Certificate of registration of computer programs of 19.01.22 N 2022612457, Register of computer programs Federal Service for Intellectual Property (ROSPATENT).
13. Solyanik A.I., Novikov V.A., *Kompetentnost'*, 2021, no. 1, pp. 6–10.
14. Voronin V.N., Solyanik A.I., *Glavnyy metrolog*, 2021, no. 6, pp. 4–11.