

# Training of Engineering Personnel and Highly Qualified Scientific Specialists

**Yu.V. Doylin**<sup>1</sup>, OJSC Vitebskdrev, drev@vitebsk.by

**I.M. Groshev**<sup>2</sup>, OJSC Vitebskdrev, Assoc. Prof. PhD (Tech.), zymmix@gmail.com

**K.I. Tarut'ko**<sup>3</sup>, OJSC Vitebskdrev

**A.N. Makhon**<sup>4</sup>, EI Vitebsk State Technological University (EI VSTU), PhD (Tech.), anmakhon@mail.ru

**I.S. Karpushenko**<sup>5</sup>, TRiT EI VSTU

<sup>1</sup> General Director, Vitebsk, Republic of Belarus

<sup>2</sup> Head of CFL, Head of Branch of Department TRiT, Vitebsk, Republic of Belarus

<sup>3</sup> Leading Engineer-Metrologist, Master, Vitebsk, Republic of Belarus

<sup>4</sup> Associate Professor of Department, Vitebsk, Republic of Belarus

<sup>5</sup> Senior Lecturer of Department, Vitebsk, Republic of Belarus

**Citation:** Doylin Yu.V., Groshev I.M., Tarut'ko K.I., Makhon' A.N., Karpushenko I.S. Training of Engineering Personnel and Highly Qualified Scientific Specialists, *Kompetentnost' / Competency (Russia)*, 2023, no. 2, pp. 4–11. DOI: 10.24412/1993-8780-2023-2-04-11

## key words

engineering and technical personnel, efficiency of personnel training, intellectual competencies, educational environment

An example of the implementation of the main provisions of the Strategy Science and Technology: 2018–2040 of the National Academy of Sciences of Belarus in terms of training personnel with high technical and intellectual competencies for the national economy is considered. The positive experience of creation and functioning of the branch of the department Technical Regulation and Commodity Science of VSTU in the conditions of an industrial enterprise is described.

A modern engineer should be ready to make non-standard decisions, make intellectual breakthroughs, and work in constantly changing conditions. The training of such a specialist is impossible without practicing hard and soft skills in the conditions of a really operating enterprise or organization. In addition, the company, for its part, controls and influences the training process of the future engineer, setting the necessary level and number of necessary competencies.

In the interaction of education, production and science, the key to solving problems both at the local level of an enterprise or industry, and on the scale of the state, is to increase the scientific and technical competence of personnel who meets the challenges of the development of science and technology, current trends in the labor market and the needs of the economy, as well as improving the international image of Belarusian education and science.

## References

1. Strategy Science and Technology: 2018–2040. Approved Resolution of the Presidium of the National Academy of Sciences of Belarus dated 26.02.2018 N 17.
2. Ignatkovich A.S. Metrological educational cluster. The experience of St. Petersburg — for the whole of Russia, *The world of dimensions*, March 2022.

## Как подготовить статью для журнала «Компетентность»

Оригинал статьи и аннотацию к ней необходимо передать в редакцию в электронном виде (на магнитном носителе или по электронной почте komr@asms.ru). При передаче информации по электронной почте желательно архивировать файлы. В названиях файлов необходимо использовать латинский алфавит. Допускаемые форматы текстовых файлов — TXT, RTF, DOC.

Допустимые форматы графических файлов:

- ▶ графики, диаграммы, схемы — AI 8-й версии (EPS, текст переведен в кривые);
- ▶ фотографии — TIFF, JPEG (RGB, CMYK) с разрешением 300 dpi.

К каждой статье необходимо приложить сведения об авторах — фамилия, имя, отчество, ученая степень, ученое звание, место работы и должность, телефон служебный и домашний, адрес электронной почты.