

# Professional Standards for the Educational Programs' Competencies Formation

**Kh.A. Nevmyatullina**<sup>1</sup>, D.I. Mendelev University of Chemical Technology of Russia (MUCTR), PhD (Tech. sc.),  
Assoc. Prof., knevm@mail.ru

**R.V. Grafushin**<sup>2</sup>, MUCTR, r-std@yandex.ru

**A.D. Zerekidze**<sup>3</sup>, MUCTR

<sup>1</sup> Associate Professor, Moscow, Russia

<sup>2</sup> Senior Lecturer, Moscow, Russia

<sup>3</sup> Undergraduate, Moscow, Russia

**Citation:** Nevmyatullina Kh.A., Grafushin R.V., Zerekidze A.D. Professional Standards for the Educational Programs' Competencies Formation, *Kompetentnost' / Competency (Russia)*, 2022, no. 4, pp. 4–9. DOI: 10.24412/1993-8780-2022-4-04-09

## key words

higher education, professional standard, competencies, labor functions

Currently, there is an active convergence of the education system and the sphere of work through the updating of the Federal State Educational Standards for Higher Education (FSES HE 3 ++), taking into account the relevant professional standards. In our opinion, when designing basic educational programs, the priority is the definition and formation of professional competencies that correlate with the labor functions of specialists of certain qualification levels. We have considered the problems of introducing a new generation educational standard into the system of higher education on the example of training bachelors in the direction of Standardization and metrology. The basic requirements for educational programs according to FSES 3++ are described.

A list of professional standards for the development of a bachelor's program has been proposed. The main professional competencies of graduates are formulated in accordance with the generalized labor functions of professional standards. The peculiarities of the preparation of students in the direction of 27.03.01 at the D.I. Mendelev university. The advantages of training specialists according to new standards are shown.

## References

1. RF Code of 30/12/2001 N 197-FZ Labor Code of the Russian Federation.
2. Pavlova O.A. Primenenie professional'nykh standartov: problemnye aspekty [Application of professional standards: problematic aspects], *Dopolnitel'noe professional'noe obrazovanie v strane i mire*, no. 1(15), 2015.
3. Morgunov V.M., Drozdova I.I. Rol' professional'nykh standartov v regulirovanii rossiyskogo rynka truda [The role of professional standards in the regulation of the Russian labor market], *Professional'noe obrazovanie v Rossii i za rubezhom*, 2015, vol. 4(20), pp. 6–8.
4. Ustyuzhina A.Yu. Formirovanie professional'nykh kompetentsiy u bakalavrov servisa s uchetom professional'nykh standartov [Formation of professional competencies among bachelors of service, taking into account professional standards], *Mir nauki. Pedagogika i psikhologiya*, 2019, vol. 7, no. 3, 23 P.
5. Order of the RF Ministry of Science and Higher Education of 7/08/2020 N 901 On approval of the Federal state educational standard of higher education — bachelor's degree in the direction of preparation 27.03.01 Standardization and metrology.
6. Biglov R.R. Ob aktualizatsii obrazovatel'nykh programm magistratury biotekhnologii v svyazi s vvedeniem professional'nykh standartov [On updating the educational programs of the master's program in biotechnology in connection with the introduction of professional standards], *Aktual'naya biotekhnologiya*, 2016, no. 2(17), pp. 49–51.
7. Kharitonov A.O. Obrazovatel'nye standarty v sisteme vysshego obrazovaniya: kadrovoe sootvetstvie [Educational standards in the higher education system: personnel compliance], *Kompetentnost' / Competency (Russia)*, 2021, no. 9–10, pp. 6–8.
8. Nevmyatullina Kh.A. Primenenie professional'nykh standartov v sisteme dopolnitel'nogo professional'nogo obrazovaniya [The use of professional standards in the system of additional professional education], *Sodeystvie professional'nomu stanovleniyu lichnosti i trudoustroystvu molodykh spetsialistov v sovremennykh usloviyakh*, Belgorod, 2018, vol. 2, pp. 121–126.
9. Federal Law N 273-FZ of 29/12/2012 On education in the Russian Federation.
10. Order of the RF Ministry of Industry and Trade and the Ministry of Energy of 8/04/2014 N 651/172 On approval of the Strategy for the development of the chemical and petrochemical complex for the period up to 2030.
11. Nevmyatullina Kh.A., Smirnova G.E. Realizatsiya kompetentnostnogo podkhoda s ispol'zovaniem professional'nykh standartov pri podgotovke bakalavrov [Implementation of a competency-based approach using professional standards in the preparation of bachelors], *Sodeystvie professional'nomu stanovleniyu lichnosti i trudoustroystvu molodykh spetsialistov v sovremennykh usloviyakh*, Belgorod, 2017, pp. 45–51.
12. Professional standard Specialist in technical control of product quality approved by the order of the RF Ministry of Labor and Social Protection of 15/07/2021 N 480n.
13. Professional standard Specialist in metrology approved by the order of the RF Ministry of Labor and Social Protection of 29/06/2017 N 526n.
14. Professional standard Specialist in product certification approved by the order of the RF Ministry of Labor and Social Protection of 31/10/2014 N 857n.