

## REVIEW

### **of the educational and professional program “Quality, Standardization, and Certification” of the first (bachelor’s) level of higher education in the specialty G6 “Metrology, Information and Measurement Technology” at the Ukrainian State University of Railway Transport**

In my opinion the educational and professional program “Quality, Standardization, and Certification” of the first (bachelor’s) level of higher education has been designed correctly and it meets the current requirements for training experts in quality management, metrology, and product certification. The program is designed considering modern technological and methodological approaches, ensuring a high level of student preparation for solving tasks across various industrial sectors.

The program has a well-defined structure that harmoniously combines theoretical training with practical skills. Notably, the program includes modern methods of standardization, quality control, and certification that comply with European and international standards. As a result, students acquire knowledge and skills that are in demand in the global labor market.

The logical sequence of the curriculum ensures systematic learning, progressing from fundamental disciplines to specialized courses that deepen competencies in quality management and metrological control. An important component of the program is scientific research activity, which fosters the development of analytical thinking and engages students in solving current problems in the fields of standardization and certification.

A key strength of the program is its practical orientation. Internships at enterprises specializing in product certification and quality control allow students to gain invaluable experience and better understand market demands. The involvement of industry professionals in the teaching process provides students with up-to-date knowledge and practical insights through real-world case studies.

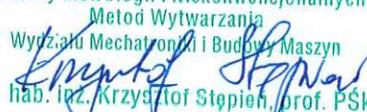
The use of modern material and technical resources, including laboratory equipment and specialized software, enables students to master tools for quality assurance and standardization in practice. This ensures a high level of graduate competence, preparing them for professional activity in a dynamic technological environment.

Graduates of the “Quality, Standardization, and Certification” program possess the necessary knowledge and skills for successful employment. They are capable of organizing quality control systems in enterprises, implementing process and product standardization, and performing tasks related to compliance assessment according to national and international standards.

Overall, the educational and professional program demonstrates high-quality development, content relevance, and market-oriented focus. Its implementation contributes to the preparation of highly qualified specialists ready to address complex tasks in the fields of quality assurance, standardization, and certification. The program is recommended for integration into the educational process of the Ukrainian State University of Railway Transport.

dr hab. inż. Krzysztof Stępień, Associated Professor

Head of the Department of Metrology and Unconventional Manufacturing Methods  
Faculty of Mechatronics and Mechanical Engineering  
Kielce University of Technology  
Kielce, Poland

KIEROWNIK  
Katedry Metrologii i Niekonwencjonalnych  
Metod Wytwarzania  
Wydziału Mechatroniki i Budowy Maszyn  
  
dr hab. inż. Krzysztof Stępień, prof. PŚK