OMPETENTNOST'/ **COMPETENCY (Russia)**

Monthly scientific and practical journal

Published since 2000 (former name Kvalifikatsiya I Kachestvo)
Registration certificate ПИ № ФС-77-75122 от 22.02.2019 The journal is included in the list of publications, recommended by Higher Attestation Commission (VAK)

Academy for Standardization, Metrology and Certification (ASMS)

109443, Moscow, Volgogradsky pros., 90, 1 Phone: +7 (499) 172 4730. Fax: +7 (499) 742 5241 E-mail: info@asms.ru. www.asms.ru

Alexander V. Zazhigalkin, FSAEI FVT ASMS

Editorial board Michael I. Lomakin, Federal Center for Science and High Technologie, RF, Moscow Svetlana A. Kalintseva, FSAEI FVT ASMS, RF, Moscow

Stanislav Bartusek, Technical University of Ostrava, Czech Republic, Ostrava
Viktor Ya. Belobragin, LLC Advertising Informational Agency Standards and Quality, RF, Moscow
Boris V. Boylsov, International Public Organization Academy of Quality Problems, and Moscow Aviation Institute (MAI), RF, Moscow Fedor V. Bulygin, All-Russian Research Institute of Metrological Service (VNIIMS), RF, Moscow Viktor A. Vasil'ev, MAI, RF, Moscow

Vladimir V. Voronin, FSAEI FVT ASMS, RF, Moscow Tatiana V. Guseva, FSAB Research Institute Environmental Industrial Policy Centre, RF, Moscow Environmental Industrial Policy Centre, RF, Moscow Ol'ga P. Dvoryaninova, Voronezh State University of Engineering Technologies, RF, Voronezh Alexander V. Dokukin, Federal Center for Science and High Technologie, RF, Moscow Nina I. Dunchenko, Russian State Agrarian University — Moscow Timiryazev Agricultural Academy, RF, Moscow Lev K. Isaev, All-Russian Research Institute of Metrological Service (VMIIMS). RF Moscow

of Metrological Service (VNIIMS), RF, Moscow Leonid V. Kolomiets, Odessa State Academy of Technical Regulation and Quality, Ukraina, Odessa Vladimir Yu. Korchak, N.E. Bauman MSTU, RF, Moscow Aleksey V. Leonov, FSBI 46 Central Research

Alexsey V. Leoliov, FSDI 40 Cellifal Research Institute, RF, Moscow Alexandr V. Malkov, D. Mendeleev University of Chemical Technology of Russia, RF, Moscow Valeriy A. Novikov, FSAEI FVT ASMS, RF, Moscow Yuriy A. Pal'chun, Novosibirsk Branch FSAEI FVT ASMS, RF, Novosibirsk

Vladimir V. Pomazanov, Self-Regulatory Organization CenterReahim, and SEI HE MO State Humanitarian and Technological University, RF, Moscow Region

Anatoliy I. Solyanik, Russia Voronezh Branch FSAEI FVT ASMS, RF, Voronezh

I.S. Gridin, L.A. Kas'yanova E.V. Kirienko, I.B. Kuskova Phone: +7 (499) 172 7717, 172 5757

A.B. Kostrikov

Original layout
Individual Entrepreneur Shilenkova E.I. Phone: +7 (916) 324 0613

In the union catalog Russia Press: 87872 In the union tatalog wassa riess. 67672 In the publishing department Phone: +7 (499) 172 7717. E-mail: komp@asms.ru Signed for printing 10.02.2025 Matte coated paper 84×108/16 Offset printing. Conv. pp. 4 5000 copies. Order number 172025

Printing House LLC Polygraphic complex, 125315, Moscow, Chasovaya str., 28, bldg. 4, fl. 3, room 42V

Authors' ideas may not always coincide with the editorial stuff.
While using materials reference to the journal Kompetenthost' is required Articles' reprinting is allowed only with the editorial stuffs' permission
Editorial stuff is not responsible for the content of the advantisements

of the advertisements

Materials in the category Company are published
on the rights of advertising © Academy for Standardization, Metrology and Certification, 2025

Content

1/2025

CHIEF EDITOR'S COLUMN

TRAINING

M.A. Cherepanov M.A. Ishutina On Training Specialists in the Field of Metrology, Technical Regulation & Standardization

TECHNICAL REGULATION

I.Z. Aronov A.M. Rybakova E.V. Lebedinskaya On the Effectiveness of Voluntary Certification Systems

INNOVATION

V.Yu. Korchak L D.E. Baranov N.S. Efimova E.V. Surkova A Conceptual Model of the Science & Technologies Achievements' Impact on the Production Development

PRODUCTION ORGANIZATION

S.M. Goryunova N.G. Nikolaeva Digitalization of the Pharmaceuticals **Production Process**



QUALITY **MANAGEMENT**

🐧 O.V. Knyaz'kina R.M. Khamitov G.V. Dmitriev O.P. Chernikova Modern Technologies for Improving the Quality of Services in the Transport Industry

MANAGEMENT

M.M. Mityugina T.V. Kravchenko Procedure for Assessing the Maturity Level of an Organization's Quality Culture

METROLOGY

S.B. Danilevich K.P. Arsyutin Improving the Reliability of Multiparametric Measurement Testing

A.K. Zhumagali B.U. Baykhozhaeva Analysis of the Uncertainty Assessment of the Moisture Volume Fraction Hygrometer

TOPICAL THEME

42 M.A. Ditskiy A.A. Spiridonova **Evaluation of Testing Equipment Suppliers** in the Context of Sanctions

48 E.V. Polzikova E.L. Zadneprovskaya Analysis of Trends of the Placement Enterprises Classification in Russia

RESEARCH

V.A. Afanas'ev A.A. Versin K.A. Arkhitskaya O.D. Khokhryakova Development of a Software Prototype for the Air Flow Velocity Working Standard

TRAINING

6, 33, 64

Reviewers:

Prof. Dr. T.V. Guseva, Research Institute Environmental Industrial Policy Center;

Prof. Dr. V.A. Vasil'ev, Russian State University of Aviation Technology (MAI);

Prof. Dr. N.I. Dunchenko, Russian State Agrarian University — Moscow Timiryazev Agricultural Academy; Prof. Dr. A.I. Solyanik, Voronezh ASMS Branch;

Prof. Dr. V.Ya. Belobragin, Academy for Quality Problems;

Prof. Dr. I.A. Makeeva, State Scientific Institution Research Institute for Dairy Industry;

Prof. Dr. A.V. Malkov, D.I. Mendeleev University of Chemical Technology of Russia;

Prof. Dr. V.Yu. Korchak, N.E. Bauman Moscow State Technical University;

Prof. Dr. A.V. Leonov, 46 Central Research Institute of RF Defense Ministry

Next issues

Quality Management of High-Tech Products Using ISI Technologies

Prospects Assessment for the RF Transport Complex Innovative Development

Monitoring a Manufacturing System: Using Bluetooth Low Energy