

is necessary to know the amount of reliability. Based on this, to determine the amount of risk in relation to products, processes or systems, you can use the same methods that are used in determining reliability, that is, use methods of structural analysis and methods of mathematical statistics.

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ANALYSIS OF THE REQUIREMENTS OF THE INTERNATIONAL STANDARD ISO/IEC 17025: 2019 TO TESTING LABORATORIES

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The increasing number of testing laboratories in Ukraine is, of course, a positive fact and indicates the growth of the economy, intensification of production, as well as the growth of the problem of quality control of imported products. The quality of work

on products testing in laboratories is largely determined by the technical condition of the testing equipment, the level of equipment, the presence of qualified personnel and, especially, the presence and conformity of the functioning quality management system. It should be noted that the development of the accreditation system itself in Ukraine in accordance with international experience can be achieved by an increase in the volume of implementation of modern quality systems in laboratories, harmonizing metrological documentation, conducting fundamental research, and developing a modern methodological base available to a wide range of specialists. One of the main tasks of the modern laboratory is the development and improvement of the quality management system, the introduction of its main components into the testing process and confirmation of the laboratory itself. The existing standard (ISO/IEC 17025: 2019) [1], used by laboratories in the development of own quality management systems, as well as administrative and technical systems used to manage activities, is not a universal key in solving these problems. This standard is rather a description of the requirements that test laboratories must comply with the aim of confirming competence from a technical point of view and the possibility of issuing reliable results. The community of requirements, acceptability for all testing and calibration laboratories, the possibility of using accreditation bodies as the basis for evaluation, obviously, give the impression of the simplicity of its implementation. But, faced with significant difficulties in the development and implementation of such systems, which is associated with the need to teach personnel, the development of new methods, the modernization of equipment, high labor costs, etc., testing laboratories are in dire need of general guidelines or benefits. Both in the process of development and at the final stage of implementation of the quality management system of the testing laboratory, appropriate metrological support, methodological recommendations, procedures, instructions and forms as examples, as well as planning and conducting internal audits, as a useful tool for improving the system, are needed.

To achieve the goal, it is necessary to solve the following tasks:

- substantiate the requirements of the international standard and the requirements of accreditation bodies for testing laboratories;

- develop a mechanism for fulfilling the requirements of the standard, taking into account the specifics of the requirements of various accreditation bodies and substantiate the legality of these requirements;

- to investigate on the basis of statistical data and practical material the differences between the requirements of the standard and the requirements of the accreditation bodies, the presence of the subjectivity of experts when assessing the degree of fulfillment of these requirements.

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