

Method for Assessing the Manufacturing Products Quality in the Production Process

V.D. Mogilevets¹, A.N. Tupolev Kazan National Research Technical University — KAI (KNRTU — KAI), PhD,
mogilevec-val@mail.ru

¹ Associate Professor of Department, Naberezhnye Chelny, Russia

Citation: Mogilevets V.D. Method for Assessing the Manufacturing Products Quality in the Production Process, *Kompetentnost' / Competency (Russia)*, 2022, no. 6, pp. 32–35.
DOI: 10.24412/1993-8780-2022-6-32-35

key words

quality assessment, methodology,
defect-prone zones, defect carriers

At present, the transition of the enterprise to the built-in quality system is becoming relevant. To implement it, I have developed a methodology for introducing built-in quality. It allows you to determine the key characteristics (control points) of the technological process, since its main purpose is to identify defect-forming zones of defect-carrying products and determine ways that exclude their occurrence in mass production. Identification of defect-forming zones is carried out based on the results of FMEA, technical diagnostics, non-destructive testing, physical and technical analysis, and organizational and technical measures. This technique, as an element of built-in quality, does not require additional costs. It is based on the production technology operating at the enterprise, statistical results, technical diagnostics, production control and product testing. Regardless of any data array, fixing the quality indicators of any assessment of measurements or tests is reduced to obtaining an unambiguous answer: yes or no, which is, the product characteristic meets the specified requirements or does not.

References

1. Lapidus V.A. Vseobshchee upravlenie kachestvom v rossiyskoy promyshlennosti [Total quality management in Russian industry], *Nadezhnost' i kontrol' kachestva. Seriya Statisticheskie metody*, 1996, no. 5.
2. Lapidus V.A. Spetsificheskie problemy statisticheskogo upravleniya kachestvom i komp'yuterizatsii v rossiyskoy promyshlennosti [Specific problems of statistical quality management and computerization in Russian industry], *Nadezhnost' i kontrol' kachestva. Seriya Statisticheskie metody*, 1995, no. 4, 6.
3. Juran J. U istokov statisticheskogo kontrolya [At the origins of statistical control], *Nadezhnost' i kontrol' kachestva. Seriya Statisticheskie metody*, 1998, no. 7.
4. Glichev A.V. Osnovy upravleniya kachestvom produktsii [Fundamentals of product quality management], Moscow, *AMI*, 1998, 356 P.
5. Glazunov A.V. Statisticheskie metody pri proizvodstve produktsii: prakticheskoe rukovodstvo dlya masterov i rabochikh [Statistical methods in product manufacturing. Practical guide for craftsmen and workers], N. Novgorod, *CMC Prioritet*, 2003, 52 P.
6. Glazunov A.V. Primenenie prikladnykh statisticheskikh metodov pri proizvodstve produktsii (dlya upravlyayushchikh na urovne tsekha): prakticheskoe rukovodstvo [Applying applied statistical methods to product manufacturing (for shop floor managers). Practical guide], N. Novgorod, *RC KD, CMC Prioritet*, 1995.
7. Glazunov A.V., Kochetkov E.P., Lapidus V.A. O normirovani urovney nesoottvetstviy v partiyakh produktsii (problema nol' defektov) [On the regulation of nonconformity levels in product batches (zero defects problem)], *Nadezhnost' i kontrol' kachestva. Seriya Statisticheskie metody*, 1995, no. 12.
8. Glazunov A.V., Kochetkov E.P., Ryzhkov M.B. Upravlenie statisticheskim kontrolem stabil'nosti tekhnologicheskikh protsessov [Management of statistical control of the stability of technological processes], *Nadezhnost' i kontrol' kachestva. Seriya Statisticheskie metody*, 1993, no. 6.
9. Azarov V.N. Upravlenie kachestvom: Osnovy obespecheniya kachestva [Quality management: Fundamentals of quality assurance], Moscow, *MGIEM*, 1999, 326 P.
10. Kas'yanov S.V., Mogilevets V.D. Informatsionno-tekhnologicheskoe soprovozhdenie dlya rezul'tativnogo upravleniya kachestvom v proizvodstve avtomobil'noy tekhniki [Information technology support for effective quality management in the automotive equipment production], *Kompetentnost' / Competency (Russia)*, 2021, no. 3, pp. 45–49. DOI: 10.24412/1993-8780-2021-3=45-49.
11. Mogilevets V.D. Informatsionnoe obespechenie funktsionirovaniya sistem menedzhmenta kachestva [Information support for the quality management systems functioning], *Kompetentnost'*, 2008, no. 7(58), pp. 44–47.
12. Mogilevets V.D., Savin I.A. Praktika primeneniya metoda standartizovannoy raboty [The practice of applying the method of standardized work], *Kompetentnost'*, 2018, no. 1(152), pp. 38–44.

Как подготовить рекламу для журнала «Компетентность»



Рекламные статьи редакция оформляет в соответствии с макетом, принятым в журнале для статей этой категории.
Допустимые форматы текстовых файлов: TXT, RTF, DOC

Допустимые форматы графических файлов и готовых модулей: логотипы, графики, диаграммы, схемы — **AI 8-й версии** (EPS, текст переведен в кривые);
фотографии — **TIFF, JPEG** (Grayscale, RGB, CMYK) с разрешением **300 dpi**