

# Competency

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### 5 Industry Risks Assessment in Production Sector.

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Method of evaluation and analysis of industry risks developed by the authors is analyzed in the article. Application of the technique is considered by the example of the oil and gas industry and mechanical engineering. It is proved that the evaluation and management of industry risks are important elements in making investment and business decisions

Key words: risk assessment schedule, hazards, industry risk, risk management

### 14 Critical Technologies and Their Implementation at the Regional Level.

Dr. A.P. Chirkov, Director, Federal State Institution, State Regional Center of Standardization, Metrology and Testing in the Yaroslavl region, Yaroslavl.

Identifies the main issues arising from the enterprises and interaction of infrastructural organizations in the development of infrastructure of high technologies. The individual elements of the developed system of regional governance implementation of critical technologies are consideration.

Key words: critical technologies, infrastructure, organization, region

### 17 Standardization in the Gas Industry.

V.V. Uskov, Head of Department, Technical Regulation, Metrology and Quality Management, CJSC, SalavatstroyTEK, Moscow

Some regulations of standardization system of JSC 'Gazprom', including technical conditions governing the production of means of ballasting and securing of pipeline on design reference marks are discussed. The necessity of compliance with these documents to ensure the competitiveness of domestic producers on the domestic and foreign markets is needed

Key words: standardization system of JSC 'Gazprom', technical specifications, means of ballasting and securing of pipeline on design reference marks

### 20 Patent Raiding.

Prof. Dr. V.V. Pomazanov, General Director, Nonprofit Partnership, Industrial Group, Reagent Production, CenterReachim (NP IG RP CenterReachim), Moscow

Patent wars, patent killers and their creators, actions to prevent raiding intellectual property assignment are on consideration. Examples of Russian and foreign reality are given

Key words: intellectual property assignment, patent trolling, patent killer, patent wars

### 25 New Products Quality Evaluation Project Development Based on Consumer Needs Study.

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Creating new, attractive to consumers products with a given set of indicators and guaranteed quality is now an urgent task. Products qualimetric quality assessment formula, taking into account its compliance with safety requirements and regulatory and technical documentation is on consideration

Key words: identification index, consumer needs, qualimetric analysis of minced fish quality evaluation

### 30 Environmental and Economic Security of the New Manganese Materials Production.

Dr. D.Yu. Zhukov, Head, Research and Development Department, D. Mendeleev University of Chemical Technology of Russia, Moscow, Prof. Dr. V.I. Panfilov, Vice Rector, Science and Innovation Work, D. Mendeleev University of Chemical Technology of Russia, Moscow, Prof. Dr. A.V. Malkov, Professor, Management and Marketing Department,

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Problem of domestic enterprise specializing in the smelting of manganese ferroalloys are identified and analyzed. Priority areas for industry development that could solve the problem of the dependence of Russian industry from imports of manganese resources are given

Key words: manganese, ferromanganese, manganese raw

### 36 Relationship between Hidden Losses and Lean Manufacturing Tools.

Prof. Dr. V.A. Smirnov, President, Tatarstan Branch, Academy of Quality Problems, Institute of Economics, Management and Law (IEML), Kazan, I.I. Antonova, Vice Rector, Further Professional Education, IEML, Director, Institute of Business Education, Kazan, Dr. S.A. Antonov, Dean, Management and Marketing Faculty, IEML, Kazan, G.R. Dmitrieva, Quality Manager, IEML, Kazan, L.P. Vahitova, JSC, Almeteyevsk Pipe Plant, Almeteyevsk. The article is devoted to practical issues of lean manufacturing methodologies implementation in Tatarstan organizations and enterprises. Solutions of concrete production problems are given

Key words: lean manufacturing, lean manufacturing tools, hidden losses, constraint matrix

### 40 Choosing a Model of Measurement Error while Reliability Assessing of the Measuring Control Results.

Prof. Dr. S.B. Danilevich, Professor, Academy of Standardization, Metrology and Certification (Novosibirsk Branch), Novosibirsk State Technical University, Full Member, Academy for Quality Problems, Novosibirsk, S.V. Ruban, Associate Professor, ASMS (Novosibirsk Branch), Novosibirsk

To design an effective control methods (tests) it is necessary to use a model of measuring error while measurement control as a uniformly distributed random variable

Key words: multi-parameter monitoring, testing, simulation, measurement error model, customer and manufacturer risk, probability of second kind error

### 42 Method and Device for Determining the Resistance to Flexing Sole Materials.

Dr. I.A. Petyul, Associate Professor, Standardization Department, Vitebsk State Technological University, Vitebsk, Belarus, K.S. Matveev, Director, State Enterprise, Scientific and Technological Park of the Vitebsk State Technological University, Vitebsk, Belarus

The given article describes design and function of a device, developed by the authors that allow testing of polymeric sole materials in conditions close to real. The method of testing, results of studies of the properties of materials used in the shoe industry are made

Key words: polymer soling, flexible, multicycle test, tensile strength, the strength reduction factor

### 47 Methodological Approach to the Development of Measurement Tools of Shoes Stability of Shape.

Dr. A.N. Burkin Head, Standardization Department, Vitebsk State Technological University, Vitebsk, Belarus

The approach to the calculation of the structural elements of shoes design, in order to provide a proper level of quality products is discussed. The proposed methodology can be the basis for the calculation of structural elements of shoes and forecast its properties during operation

Key words: stability of shape, shoes, strength and stability of shells, evaluation mechanism, operational properties

### 53 Application of the Method of Numerical Data Correction in Microwave Measuring.

A.V. Dudakov, Graduate, FSAEI FPE ASMS, Moscow

Tests on effectiveness of the numerical address systematic uncertainty measuring the thickness of the material by microwave method are described. The experimental data on the basis of hydraulic tests and analyses of the combustion of solid fuels are compared with original and processed results

Key words: measurement uncertainty, systematic component of the deviation, measured quantity, method of numerical correction, microwave method, experimental results, calibration data