

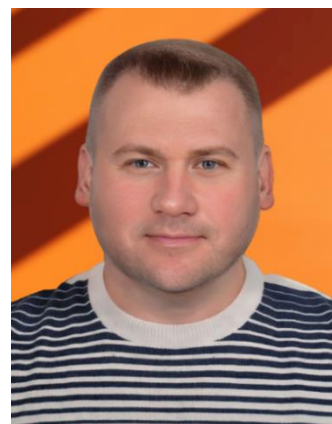
# **Zakhar Matsuk**

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## **Current employment:**

1. Department of Labor Protection, Civil and Technogenic Safety, SEI "PSACEA", Ukrainian State University of Science and Technologies (<https://pgasa.dp.ua/department/bzhd/>)
2. MODIFIC Ltd (<https://sites.google.com/view/modific>)

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## **Curriculum:**

- Safety of potentially hazardous technologies and productions
- Emergency rescue, engineering, and fire-fighting equipment
- Life safety and technogenic safety
- Metrological and regulatory support for labor protection

## **Education:**

2022 – Candidate of Technical Sciences / Philosophy Doctor

2005 – 2008 - specialist in "Management of foreign economic activity"

1999 – 2004 - specialist in "Mining machinery"

## **Career history:**

2023 – ... Associate Professor of LPC and TS SEI "PSACEA" Ukrainian State University of Science and Technologies

2018 – ... MODIFIC Ltd – CEO

2017-2018 – ME "Komunzhilservis" of the Dnipro City Council – Deputy Director

2015-2017 – State Service of Ukraine on Labor Issues, Main Department of the State Labor Service in the Dnipropetrovsk Region – Chief State Inspector of Supervision in the Gas Sector; Head of the Department of Gas Supervision; Head of the Department of Supervision in the Chemical and Gas Industries; Head of the Department of Supervision in the Chemical Industry

2012-2015 – State Service of Mining Supervision and Industrial Safety of Ukraine, Territorial Administration of the State Mining Supervision and Industrial Safety Service of Ukraine in the Dnipropetrovsk Region – Chief State Gas Technical Inspector of the State Inspection of Supervision in the Gas Sector of the Territorial Administration of the State Mining Supervision and Industrial Safety Service of Ukraine in the Dnipropetrovsk Region

2005-2010 – JSC "Ukrtransgaz", "Dnipropetrovsk Linear Production Department of Main Gas Pipelines" – Engineer of the Energy and Water Supply Service; Engineer of the Linear Operations Service; Engineer of the Linear Operations Service of the 2nd Category; Head of the Linear Operations Service

1994-2005 – Municipal and Private Enterprises – Various positions

## **Projects / internships:**

2024 – Initiative development, operational testing, and production launch of repair and restoration lubricants for internal combustion engines.

2015-2024 – Development and refinement of the "Principle of Adequacy of Probabilities" as a new direction in safety theory.

2023-2024 – Initiative development, operational testing, and specialized lubricants for the "wheel-rail" friction pair of public electric transport rolling stock.

2023-2024 – Studying for a degree in specialty 263 "Civil Safety"

2023 – Initiative development, operational testing, and production launch of specialized lubricants for traction and wheel gearboxes of public electric transport.

2022 – Initiative development, operational testing, and production launch of specialized lubricants for the friction pairs of air compressors in public electric transport.

2019-2021 – Initiative development, operational testing, and production launch of specialized lubricants for the "wheel-rail" friction pair of railways rolling stock.

2016 – Training at the "Main Training and Methodological Center" of the State Labor Service of Ukraine.

2012 – Training at the "Main Training and Methodological Center" of the State Mining and Industrial Supervision Service of Ukraine.

2009 – "Intersectoral Training and Certification Center at the Paton Institute of Welding" – training and certification for technical supervision of welding works during the repair of operational pipelines under pressure.

2009 – JSC "Training and Course Center" – training and certification for supervision of fireworks at oil and gas facilities in Ukraine.

2005 – "Faculty of Postgraduate Education at Ivano-Frankivsk National Technical University of Oil and Gas" – training on energy efficiency issues

**Computer skills:** knowledge of basic engineering and office applications, programs for drafting, solving mathematical problems, creating presentations, infographics, programs for working with an interactive whiteboard, etc.

## **Achievements:**

Training of qualified engineering and technical personnel capable of independent high-quality work for enterprises in the oil and gas industry, as well as state supervision inspectors on labor protection and industrial safety in the gas and chemical industries of Ukraine.

Development of the "Natural Gas Evacuation Technology," which allows significant savings of natural gas during repair work at gas extraction and transportation facilities, as well as significantly increases the level of industrial and environmental safety of gas extraction and gas transportation enterprises.

Development of the "Non-disassembly Friction Surface Engineering Technology," the products of which reduce the wear intensity of high-load friction pairs by more than half compared to conventional friction reduction methods, both in the presence and absence of lubricants.

Development, commissioned by PJSC "DNIPROGAZ," of a complex of technical standards (safety standards) for the organization of Ukraine, which enabled the customer enterprise to: obtain the right to transport gas through main gas pipelines; obtain permission to perform high-risk work and to operate (use) high-risk machinery, mechanisms, and equipment; operate facilities within the main gas pipeline system, etc.

I have 23 scientific publications in scientific periodicals included in the list of professional publications of Ukraine, of which 4 publications are in periodicals included in the Scopus scientific database. Most of these scientific works have been tested during participation in 9 national and international scientific-practical conferences.

4 patents of Ukraine for inventions and utility models have been obtained...

**Also, some references to my publications:**

Matsuk Z. N., Bunko T. V., Belikov A. S., Shalomov V. A. Regularities of safe control of piston compressor units of mobile compressor stations. *Naukovyi visnyk Natsionalnoho Hirnychoho Universytetu*. 2021. № 2. P. 76–81. DOI: 10.33271/nvngu/2021-2

Belikov A., Kreknin K., Matsuk Z., Protsiv V., Lubricants for rail transport liquid(plastic) for friction pair «wheel-rail». *Naukovyi visnyk Natsionalnoho Hirnychoho Universytetu*. 2022. № 1. P. 63–68. DOI: 10.33271/nvngu/2022-1/063

Belikov A. S., Matsuk Z. N., Shalomov V. A., Kharchenko V.V. Improving safety of rolling stock through a risk-based approach to «managing friction» in «wheel-rail» friction pair. 2023. *Railway transport of Ukraine*. № 3(148). P. 23–37. DOI: 10.34029/2311-4061-2023-148-3-23-36

Belikov A. S., Matsuk Z. N., Todorov O.P., Kharchenko V.V. Riskology of safety. 2024. *Ukrainian Journal of Civil Engineering and Architecture* № 1(19). P. 17–26. DOI: 10.30838/J.BPSACEA.2312.270224.17.1019...

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**Scopus Author ID:** <https://www.scopus.com/authid/detail.uri?authorId=57223346006>

**google scholar:** <https://scholar.google.com.ua/citations?user=uy6ia8cAAAAJ&hl=uk>