



UNESCO Center project of unified international
competency framework

ISREE

INTERNATIONAL STANDARD FOR RESOURCE EXTRACTION ENGINEERS

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IDEA OF THE PROJECT

REDUCING RISKS, IMPROVING INDUSTRY SAFETY AND PROTECTING THE ENVIRONMENT ARE KEY ISSUES FOR MINERAL RESOURCE INDUSTRY; PRESSURE TO RESPOND TO THEM IS GROWING FROM STAKEHOLDERS GLOBALLY

PROBLEMS OF THE RAW MINERALS INDUSTRY

There is no **unified international professional** standards to determine the level of competencies for mineral resource engineers

A unified approach to assessing the quality of training of engineers in the mining and technical profile has not been formed, and the **minimum threshold knowledge**, skills and experience, taking into account their changes in the labor market, necessary for integrating engineers into the international professional environment, have not been defined

The system of **international professional assessment** of engineering stuff of the mineral resource complex has not been developed



RUSSIAN EXPERIENCE

A professional title is a benchmark by which the the public, employers and their clients can be assured that registered engineers and technicians that registered engineers and technicians meet internationally recognized professional standards.

01 The Engineering Council establishes and maintains an internationally recognized framework of competencies and ethical conduct for professional engineers, which are detailed in the Professional Engineering Competence Standard (UK-SPEC).

02 The Institute is a professional community that provides and promotes the professional development of its members. Currently, the IOM3 community consists of more than 17,000 engineers, 300 companies, 1,500 educational institutions.

03 In 2019, a regional representative office of IOM3 was established on the basis of the Association. Under the terms of the agreement, IOM3 transfers to the Association exclusive authority to conduct accreditation of specialists of mineral resource companies of the Russian Federation for professional titles from the British Councils.

04 The National Association of Mining Engineers is a professional community whose goals are: Integration of Russian engineers of mineral and raw materials complex into the world community; Creation and stimulation of the system of continuous development



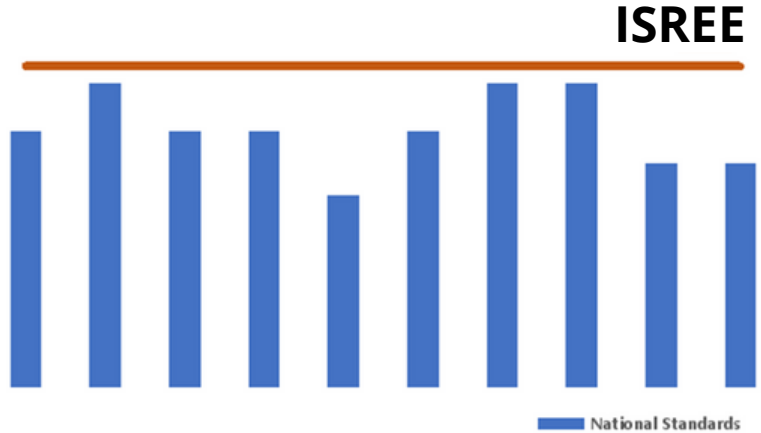
ISREE PROJECT

Concept

The concept of the ISREE Standard is intended to complement existing national standards for the recognition/registration of mining engineers (eg Chartered Engineer/Corporate Engineer in the UK and Professional Engineer in the USA).

National competence standards

The International Standard makes no judgment about national standards other than treating them as essentially equivalent.



I.M3

Global Standards

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Countries with mining engineering professional recognition standards

Africa	Asia	Europe	Middle East	N. America	C. / S. America	Pacific
Botswana	HK China	Croatia	Egypt	Canada	Argentina	Australia
Ghana	India	Cyprus	Iran	USA	Bolivia	Asia Pacific
Kenya	Indonesia	Czechia	Iraq		Brazil	Myanmar
Nigeria	Japan	Denmark	Israel		Chile	South Pacific
South Africa	Korea	France	Syria		Mexico	
Tanzania	Mongolia	Germany	UAE		Peru	
Uganda	Philippines	Greece				
Zambia	Singapore	Hungary				
	Taiwan	Iceland				
	Malaysia	Ireland				
	Pakistan	Italy				
		Latvia				
		Malta				
		Netherlands				
		Norway				
		Poland				
		Portugal				
		Romania				
		Slovakia				
		Spain				
		Switzerland				
		UK				

International Standards



ISREE FRAMEWORK

Mining around the world is changing and pressure is increasing on it to change faster and more radically. Each of these four areas are areas in which operating to even higher standards could reduce risks; risks to business reputation, of harm to people involved in and affected by mineral extraction, to the world that supports our way of life, and to its financial base.



A. Ethics



B. Safety



C. The Environment



D. Financial Management

Thank you for attention

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