

ISSA MINING

YOUR GLOBAL NETWORK FOR PREVENTION

Safety, Health and Wellbeing in Mining

50 YEARS



issa | mining



**VISION ZERO** 

Safety.Health.Wellbeing.



issa

INTERNATIONAL SOCIAL SECURITY ASSOCIATION

Section on Prevention in the Mining Industry







# **ISSA MINING**

## **YOUR GLOBAL NETWORK FOR PREVENTION**

Safety, Health and Wellbeing in Mining

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# WHO WE ARE

ISSA Mining is part of the International Social Security Association (ISSA), headquartered in Geneva, Switzerland and being the principal international institution bringing together more than 320 leading social security agencies and organizations from 150 countries. ISSA's Special Commission on Prevention is comprised of 14 international Prevention Sections focusing on the individual sectors of industry.

ISSA Mining acts globally on a non-profit basis and cares for safety, health and wellbeing in mining, connecting stakeholders who are sharing passion, responsibility and professional interest in occupational safety and health for mining.

## Because Life Matters

ISSA Mining aims to achieve decent working, OSH and social conditions in mining enterprises of all sizes – small businesses included! ISSA Mining is clearly committed to the prevention strategy VISION ZERO, the vision of a world without occupational accidents and work-related diseases.

Founded in 1969, ISSA Mining was among the first ISSA Prevention Sections committed to safety and health in mining. ISSA Mining brings together stakeholders from all parts of the world who are committed to safety and health in all kinds of mining. Using our global network as a sound basis, we publish tried and tested guidelines reflecting how some of the best mining operators are achieving their success and we initiate the transfer of good, successful practice in international conferences and workshops.

ISSA Mining unites meanwhile more than 130 members from all across the world. We are guided by our board with leading executives from Europe, North and South America, Africa and Asia.

## Partners in our Global Network

- Mining businesses
- Trade associations
- Trade unions
- Mining networks and associations
- Governments, ministries and agencies
- Regulators and prevention service providers
- Researchers, academics and teachers
- Mining universities
- Mining suppliers of technology and PPE
- Mining service contractors
- Individual experts





# VISION ZERO

Safety.Health.Wellbeing.



## **OUR STRATEGY: VISION ZERO. SAFE AND HEALTHY MINING WORLDWIDE!**

According to ILO figures, 2.78 million die each year from occupational accidents and work-related diseases – this is a wakeup call. In evaluating the situation, it becomes clear that these figures are not mainly caused by a lack of regulations. What is called for are systematic guidelines, easy to understand and to apply tools basing on experience and findings in the industry. What is needed is a prevention strategy that takes into consideration that every accident and every case of occupational disease can be prevented – a fact that has been considered unrealistic for a long time, but proven to be possible by companies also in mining across the world.

With this in mind, ISSA Mining launched its prevention strategy “VISION ZERO. Safe and healthy mining worldwide!” in 2012 and concentrated all its future prevention services and measures on it.

“VISION ZERO. Safe and healthy mining worldwide!” conveys a clear message. It is based on the belief that preventive measures can achieve a working environment in mining and the mineral extraction industry, where occupational accidents and work-related diseases are events of the past and no-one is killed or suffers lifelong consequences from injury at work.

This makes the mining section a pioneer among the 14 Prevention Sections of the ISSA. 2017 VISION ZERO became the joint prevention strategy for all Prevention Sections.

### **VISION ZERO – for Life and Economic Success**

VISION ZERO is the vision of a world without occupational accidents and work-related diseases. Its highest priority is to prevent fatal and serious work accidents and occupational diseases. VISION ZERO is the goal of a comprehensive culture of prevention.

VISION ZERO is about nothing less than our life and health – the most valuable asset for every human being. But not only that: it is also about the success of enterprises, efficient production, and motivated, productive employees. Although it is sometimes also called a vision or a philosophy, VISION ZERO is in fact a strategy for more efficient prevention that is based on results and characterised by values.

For further information on the VISION ZERO prevention strategy visit:  
[www.visionzero.global](http://www.visionzero.global)



# VISION ZERO FOR CORPORATE SOCIAL RESPONSIBILITY

Accidents and occupational diseases show drastic consequences for those affected. They lead to pain and suffering, incapacitation, a loss of quality of life, and sometimes dramatic economic consequences for the individual and her or his family.

The good news: Accidents at work and occupational diseases are neither predetermined nor unavoidable – they always have causes. By building a strong prevention culture, these causes can be eliminated and work related accidents, harm and occupational diseases be prevented.

Working prevention shows your employees that you are respecting their fundamental human right to health and life.

What is more: Customers become increasingly aware of social responsibility along supply chains. Respecting and ensuring the integrity of your workforce is a hands-on plus in the perception of your business next to environmental standards.

## Supporting the UN Sustainability Development Goals

Moving towards health and safety means moving towards sustainability: The United Nations recognize decent work, good health and well-being as important parts of their 2016 Sustainable Development Goals.

Find out more at <https://sustainabledevelopment.un.org/>

**VISION ZERO pays off in many ways – the 7 Golden Rules are an excellent starting point.**





# VISION ZERO FOR ECONOMIC SUCCESS

Safe and healthy working conditions are not only a legal and moral obligation – they also pay off economically. While prevention can cost money, a lack of working prevention can cost multiple times more. An accident causes a stop of production, leads to absence of personnel, and costs money. With 1,000\$ direct cost and an operating margin of 5%, you need an additional 20,000\$ turnover to compensate the cost of an accident financially.

On the large scale, the figures become impressive as well. The ILO estimates lost working time, workers' compensation, interruption of production, and medical expenses account to four percent of the global GDP. At a 2017 global GDP of some 80 trillion USD, roughly 3.2 trillion USD are consumed by OSH deficits according to this share. Four percent is just the average; in some economies, the GDP loss amounts to around 10% of the local GDP.

Investments into health and safety pay more than "non-safety". International research on the return on investments in prevention shows that every dollar invested in safety and health generates a potential benefit of more than two dollars in positive economic effects. Healthy working conditions contribute to healthy business.<sup>1</sup>

<sup>1</sup> [https://publikationen.dguv.de/dguv/pdf/10002/23\\_05\\_report\\_2013-en--web-doppelseite.pdf](https://publikationen.dguv.de/dguv/pdf/10002/23_05_report_2013-en--web-doppelseite.pdf)









# THE SEVEN GOLDEN RULES – OUR KEY TO SUCCESS

How can VISION ZERO be successfully implemented at the workplace? What can entrepreneurs, managers, staff representatives, foremen or department supervisors do? Resulting from decades of experience in prevention and insights into many successful mining business around the world, ISSA Mining extracted seven well-proven key factors for sustainable prevention in mining:

## The Seven Golden Rules for VISION ZERO

- 1 Take leadership – demonstrate commitment
- 2 Identify hazards – control risks
- 3 Define targets – develop programmes
- 4 Ensure a safe and healthy system – be well-organized
- 5 Ensure safety and health in machines, equipment and workplaces
- 6 Improve qualifications – develop competence
- 7 Invest in people – motivate by participation

These “Seven Golden Rules” are the core of the VISION ZERO Guide, providing advice and inspiration about what managers, owners and stakeholders can do in their own field of responsibility.

What becomes clear at first glance: Safety and health is not a complicated issue – all you need is your common sense and visible leadership, or simply making use of the services offered by state services, liability insurance associations and other providers of prevention services.

The VISION ZERO Guide systematically assists businesses in ensuring that each worker returns home safely and with no harm to her or his health. It is available in a printed and in an electronic version ([www.visionzero.global](http://www.visionzero.global)).

# YOUR LAUNCH PAD TO VISION ZERO

## 7 Golden Rules – for zero accidents and healthy work: A guide for employers and managers

This is your starting point – available in more than ten languages. 20 pages, structured checklists on each rule.

<http://visionzero.global/Guides>



## App “7 Golden Rules - for zero accidents and healthy work”

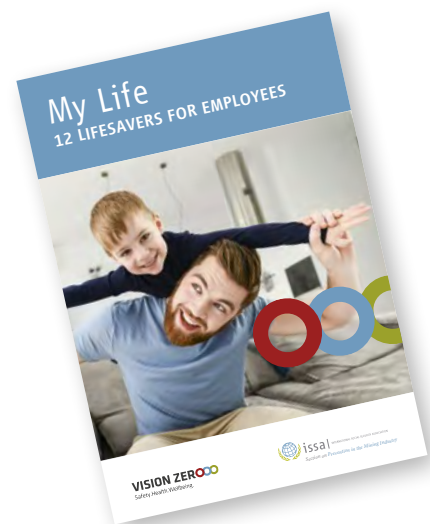
The app version of the guide offers interactive checklists, analyses the results and gives an overview of the current status while showing the need for action on the operational level. Free, English and Spanish, Android and iOS.

<http://visionzero.global/node/231>

## My responsibility, my life: 12 lifesavers for managers and employees

An analysis of more than 300 fatal accidents revealed 12 main causes. 12 “Lifesavers” for managers and employees each show what can and needs to be done to prevent accidents, whether fatal or not. To the point, concise, proven. Lifesaving.

<http://visionzero.global/node/286>





# WHAT WE OFFER

ISSA Mining's aim is to offer the global platform for all stakeholders in mining safety and health and to transfer models of good practice. To achieve this, we are conducting conferences and workshops, publish and distribute information and stay in touch with mining stakeholders. You will find us at mining events including summits such as the World Mining Congress, trade shows and prevention events like the tri-annual World Congress on Safety and Health at Work.

We also offer partnerships with institutions aiming to improve health and safety in mining. This includes partners such as the International Mine Rescue Body and the National Safety Council of India.

We pursue media partnerships with mining magazines and multipliers such as the European Agency for Safety and Health at Work.

We consult governments and mining authorities in designing regulations and how to put them into the industry practice.

Our senior experts perform audits of safety and health organization in international teams and offer consulting on prevention and social insurance.

## What ISSA Mining Offers

- A profound network
- Contact to industry and stakeholders in mining
- Free advice for members in safety and health
- Entrance door to major conferences such as the World Congress on Safety and Health at Work and the World Mining Congress
- VISION ZERO Conferences
- Strategy Workshops for Members
- VISION ZERO Experience Sharing Forums
- Special arrangements for members (conference discounts and other benefits)
- VISION ZERO Management Seminars
- Train the Trainer Seminars
- Publications online and in print
- The regular ISSA Mining Newsletter

Find out more of what we do at [www.issa.int/prevention-mining](http://www.issa.int/prevention-mining) and in the ISSA Mining Newsletter.





## YOUR BENEFITS AS AN ISSA MINING MEMBER

ISSA Mining is a unique platform to learn, share and connect and to demonstrate commitment to health and safety in mining. Membership in ISSA Mining entails tangible and soft benefits.

### Become a Member and Benefit

- o o o Demonstrate commitment in safety and health in mining
- o o o Show your global responsibility
- o o o Contribute to a better life of people
- o o o Prove Corporate Social Responsibility (CSR)
- o o o Benefit from the independent international network
- o o o Link to the UN 17 sustainability development goals
- o o o Get free advice on safety and health
- o o o Develop your own OSH strategies
- o o o Connect to new stakeholders in mining and beyond
- o o o Contribute to global mining reputation
- o o o Be involved in international events, congresses and workshops
- o o o Benefit from reduced congress fees
- o o o Profit from special offers for ISSA Mining members
- o o o Play an active role in creating recommendations and tools
- o o o Get the latest information
- o o o Benefit from good practice of the members
- o o o Be part of the VISION ZERO community









# WHO SHOULD BE A MEMBER

ISSA Mining provides benefits and services for all mining operations and connected industrial sectors

- Hard coal and lignite coal mining
- Salt and potash mining
- Ore mining
- Services for mining (shaft sinking and tunnelling)
- Underground waste deposit
- Oil and gas mining
- Cement industry
- Lime and gypsum industry
- Aggregates and raw material mining
- Quarries and natural stone mining
- Natural stone processing
- Mineral recycling industry
- All operations and services related to mining

Next to companies, we also gladly welcome as our members networks and associations, academics and students, ministries, agencies, suppliers and service providers as well as individual experts. In short: Everyone who is pursuing improved safety, health and wellbeing as we do.



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INTERNATIONAL SOCIAL SECURITY ASSOCIATION

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Helmut Ehnes  
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The German Social Accident Insurance Institution for the raw materials and chemical industry (BG RCI) is entrusted with the organization of this ISSA Section. It is among many other sectors also the statutory accident insurance for all mining operations and for all extractive and quarrying works in Germany and offers prevention for underground and surface mining as well as for the processing of the raw material.

## **Get in touch with us:**

[issa.mining@bgrci.de](mailto:issa.mining@bgrci.de)  
[www.issa.int/prevention-mining](http://www.issa.int/prevention-mining)  
[www.visionzero.global](http://www.visionzero.global)

# HALF A CENTURY FOR THE HEALTH OF MINERS

When ISSA Mining was established in 1969, the founding fathers could probably not imagine what would happen over the following 50 years. Yet, the core alignment did not differ from today's approach: Connect OSH experts across the world to collect and compare good models of OSH practice, disseminate information and aim for mining operations to put the knowledge into practice.

ISSA Mining was one of the first Prevention Sections initiated by the ISSA in Geneva, Switzerland in 1969. The Scientific Research Institute for Coal Mining, Vědeckovýzkumný uhelný ústav in Ostrava, Czechoslovakia, accepted the responsibility for ISSA Mining's administration. During the first 25 years, ISSA Mining conducted 17 conferences and symposia, mainly in Czechoslovakia, Germany and the USA. The focus centered on the education of miners, pneumoconiosis, coal dust explosions and mine rescue; the scope was later extended to tunneling next to mining minerals.

The political and economic change in Eastern Europe during the last decade of the millennium affected ISSA Mining largely. In 1993, the Czech Republic was founded, now hosting ISSA Mining and two thirds of its members. With the restructuring of the economy, mines in the young republic closed on a large scale, and not only mining faced downsizing, also institutes as Vědeckovýzkumný uhelný ústav were affected: The number of employees was cut down tremendously, and the focus became more economic. Out of 23 ISSA Mining members in 1990, only six remained. With the current ISSA Mining President Petr Schreiber retiring from his professional position and Secretary General Eva Květenská accepting new responsibilities, the former administration of ISSA Mining indicated a lack of further options to run ISSA Mining, and the ISSA assigned the role to BBG, the German statutory accident insurance for mining.

## Extending the focus

The new administration used its experience and existing network in mining to broaden the base of members and networks. 1996, StBG joined as the German statutory accident insurance for quarrying and helped by extending the focus from underground mining to the closely related sectors of open-pit mining as well as the oil and gas industry. The base grew steadily, and ISSA Mining's support was sought for increasingly. Strong alliances with partners such as the Atlantic Alliance, an international network aiming to increase safety with earth-moving machinery and the International Mine Rescue Body helped to shape ISSA Mining's work and to widen the effect. ISSA Mining supported the FairStone project to improve social standards along the supply chain for natural stone and cooperated with Ministries in Vietnam, Turkey and Laos to transfer knowledge in mine safety. Strong partnerships with mining countries such as Chile and Mongolia came to life, a Memorandum of Understanding was signed with the National Safety Council of India and other stakeholders.



## Towards VISION ZERO

In 2012, ISSA Mining introduced its prevention strategy VISION ZERO, reflecting a fundamental attitude based on the idea that every accident at work or on the roads can be prevented if the right measures are put in place. The same goes for occupational diseases, and there is a particular focus on preventing accidents that lead to fatalities or permanent damage to health.

While calling for zero accidents and diseases, ISSA Mining presented the “7 Golden Rules for Safe and Healthy Mining” to assist operators in implementing prevention measures systematically and in a practice-proven way.

This approach found remarkable acclaim and started to spread fast across the world. The universality and simplicity of the tools led the then 13 Prevention Sections of the ISSA to an adoption of the strategy as well as of the “7 Golden Rules” in 2015 – as a joint approach across sectors, thus forming the first joint initiative of all sections ever in almost 50 years. At the XXI World Congress on Safety and Health at Work in Singapore 2017, the ISSA launched VISION ZERO and the guide “7 Golden Rules – for zero accidents and healthy work”. In 2019, the ISSA offers the guide in more than ten different language versions. In the same year, the number of VISION ZERO supporters that publicly committed exceeded 4,000.

At the time of its 50th anniversary, ISSA Mining unites some 150 members around the world, connected by the joint aim to improve health and safety in mining – still reflecting the core idea of 1969.



# JOIN ISSA MINING!

ISSA Mining offers two membership categories:

## 1 Ordinary Full Membership Category:

**Annual subscription fee 500 CHF**

- For all organizations, like enterprises, suppliers, universities, research institutions, associations and all other stakeholders of the mining industry whose objectives are consistent with those of ISSA Mining and
- For affiliate and associate members of the International Social Security Association (ISSA) and institutions forming part of a federation of institutions, government departments, agencies or other entities being an affiliate or associate member of the ISSA. Direct members of the ISSA will not pay additional contributions to ISSA Mining.

## 2 Corresponding Personal Membership Category:

**Annual subscription fee 100 CHF**

- For individuals and experts in occupational safety and health in the mining industry.

**Each category entails the same opportunities for participation in ISSA Mining's activities!**

Your gateway to membership is the online form at [www.issa.int/prevention-mining](http://www.issa.int/prevention-mining) or use the membership form on the following page.





## MEMBERSHIP APPLICATION FORM

**Return to**

ISSA Mining

c/o Berufsgenossenschaft Rohstoffe und chemische Industrie (BG RCI)

Hunscheidtstraße 18, D-44789 Bochum, Germany

**or join us at**

[www.issa.int/prevention-mining](http://www.issa.int/prevention-mining)

### ISSA MINING SECTION MEMBERSHIP

☐ **Ms.**   ☐ **Mr.**   Title / First Name / Surname

.....

.....

Address Institution

.....

.....

Address Private

.....

.....

Telephone

.....

E-Mail

.....

### MEMBERSHIP CATEGORY

☐ Ordinary Member                      Annual subscription: 500 CHF

☐ Corresponding Member                      Annual subscription: 100 CHF

.....

Place / Date / Signature

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[www.issa.int/prevention-mining](http://www.issa.int/prevention-mining)  
[www.visionzero.global](http://www.visionzero.global)

## The ISSA Mining Media Series

ISSA Mining's media is published in three categories:

- ISSA Mining Network – explaining what we do and how we do it
- VISION ZERO Strategy – Basic knowledge on the VISION ZERO prevention strategy
- VISION ZERO Practice – Tools to put the 7 Golden Rules into practice in mining companies

This publication is part of the series ISSA Mining Network.

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