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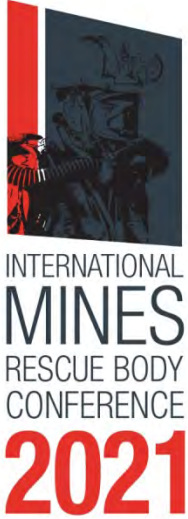
Mine rescuers training and competitions – developments and innovations

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Hello dear colleagues!

I am happy to greet you at the regular international conference «IMRB-2021» in Australia!

In the Republic of Kazakhstan, mine rescue services have been owned since 2019 and are privately managed in the structure of domestic and foreign companies carrying out their work in the coal mining and mining industry.

The Ministry of Emergency Situations of the Republic of Kazakhstan coordinates and supervises their activities.

In the case of large-scale and protracted technogenic accidents, the mine rescue services combine their forces and resources and provide each other the necessary assistance.



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Mine rescue services in the Republic of Kazakhstan provide round-the-clock service to facilities of subsoil users in the mining and coal industry.





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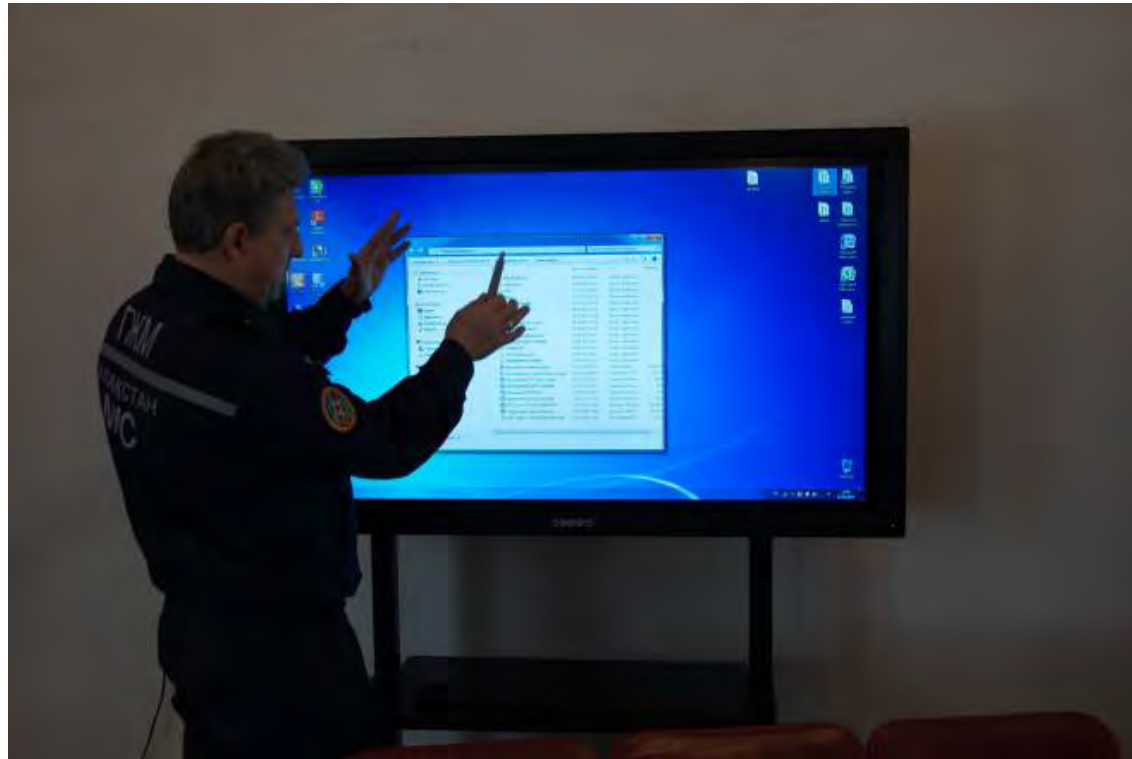
Most of the mine rescue services use the same types of devices, equipment, machinery and other types of equipment, have similar methods of training personnel to act in extreme situations.





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In their daily work rescuers engaged in theoretical and practical training for work in extreme conditions, including practicing the acquired skills in training.





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The maximum level of efficiency in carrying out rescue operations depends on many factors, including the professional training of rescuers. In the basis of the program of special training of rescuers in Kazakhstan is the principle of continuous learning and training.





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Theoretical training and practical training of rescuers is carried out in accordance with the «Special Training Program».

| № | Subjects of study | Training in the mine rescue unit | | |
|----------------------|---|----------------------------------|-------------|------------|
| | | total | theoretical | practical |
| 1 | Main normative and regulatory documents | 10 | 7 | 3 |
| 2 | Technical equipment | 58 | 23 | 35 |
| 3 | Firefighting training | 32 | 6 | 26 |
| 4 | Tactical and special training | 80 | 18 | 62 |
| 5 | Medical training | 44 | 21 | 23 |
| 6 | Basics of mining and mine ventilation, safety rules | 19 | 13 | 6 |
| 7 | Psychological training | 28 | 10 | 18 |
| 8 | Training in respirators | 96 | - | 96 |
| 9 | Physical training | 31 | - | 31 |
| Total (hour): | | 398 | 98 | 300 |



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The theoretical knowledge of rescuers is based on the traditional five-point system.

Mine rescuers work out theoretical tasks to eliminate possible accidents at serviced mines, according to specially prepared abstracts.





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The level of special training of rescuers is evaluated by standards, taking into account the time (speed) and correctness of their performance.





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As the main criteria for evaluating psychological training are used indicators of emotional lability, excitability and reactivity of rescuers. These indicators are determined by external emotional and voluntary behavior after the impact of a trigger.





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The level of physical training of rescuers is evaluated by appropriate standards and tests.





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Great attention pays to physical training, because the strength and thermal stability is the key point to the rescuer in extreme situations.



In order to assess the level of readiness of emergency services and rescuers to work in emergencies, the Republic of Kazakhstan has introduced their certification.

Certification of emergency services and rescuers is carried out in order to determine:

the degree of readiness to perform emergency rescue operations;

availability and condition of appropriate equipment, assets and gear;

compliance with professional training, medical training, physical, psychological and moral readiness of rescuers.



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The specific feature of rescuers training is as close approach the practical training to the real conditions and possible emergencies.



One of the effective form of professional training of rescuers, practicing skills of interaction in the group (in the department), in conditions as close to reality, are competitions.



National Mine Rescue competitions are held once a year at the site of the largest and oldest unit of the Mine Rescue Service (Karaganda city), which invites representatives and teams of all interested mine rescue services of the Republic of Kazakhstan.



As the improvement of production safety in the mining industry takes place everywhere, the status of competitions has risen from an excess to an urgent need.

Mine Rescue Services is well aware that the fewer accidents occur the lower level of readiness of mine rescue units to respond in case of emergency.

Well-designed and prepared competitions are the most important platform for information exchange and improvement of standards of mine rescue operations.



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National mine rescue competitions in Kazakhstan are held in three stages. The first stage is a complex task «Exploration of mine workings and assistance to the injured».





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The second stage – «Fire extinguishing», the elimination of the source of fire in conditions of high danger. Practicing various methods of fires fighting.





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The third stage – «Mine rescue relay», where the main focus is on the physical strength of the rescuers.



As an innovation, a surface mine rescue range has recently been used for regular training and competitions, which has no analogues in Kazakhstan.

The construction of the range has been carried out for several years and is regularly updated with new technological modules and mechanisms to expand the range of rescue operations.

At the range in the open national competitions, rescuers from the Russian Federation and observers from Poland have repeatedly participated.



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The range is a sequential set of different structures on the surface (modules of horizontal and vertical mine workings of different cross sections, different types of rock supports, a smoke chamber, a main water pipeline, various mining equipment, mechanisms, etc.).





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The range allows to simulate all kinds of situations that may arise during the elimination of the accident in underground mining excavations.





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The presence of high-altitude observation platform above the range, allows observers to record photos and videos of the rescue team.





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The range is used both for regular training and during the competition at the final stage - the relay, the most spectacular and emotional event, which allows to attract a large number of spectators to the competition.





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At different stages of the relay race are tested the acquired skills in working with various mechanisms, tools and tested new tactics of elimination of emergency situations within a certain time limit.





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The judge board evaluates teams on several criteria, including their compliance with safety procedures by participants, thoroughness and speed of execution the tasks.





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High requirements of judging staff to the level of rescuers training is not so much due to the scale of the competition, as the specific work of rescuers in a dangerous and hazardous environment.



Of course, the main task of the national competitions of mine rescuers is to make the necessary adjustments in the system of practical training.

In addition, based on the results of national competitions the best teams and the best rescuers are determined for the selection and their further preparation for international competitions (IMRC).

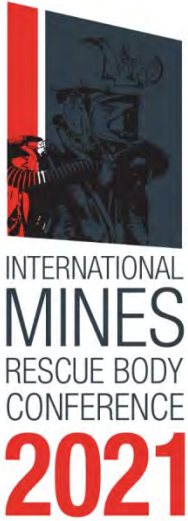
Systematic work with the team, constant training, drills and experience gained by the rescuers at various competitions bring good results.



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The Kazakhstani rescuers team «Komir» at the IMRC-2018 international competition in Yekaterinburg, Russian Federation, for the first time took third place in the overall team competition.





National Mine Rescue Competitions, like the International Mine Rescue Competitions, develop and improve a strategically important mechanism for promoting and evaluating standards and methods of mine rescue, which allows for a unified approach to mine rescue work on a global level.

Rescue competitions are a good exchange of experience, testing yourself and demonstrating your skills in unfamiliar environments, which ultimately increases the safety of rescue work.



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Thank you

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