

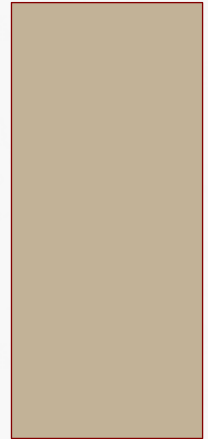


Department of "Safety and ecology of mining"
MMI. NRTU "MISIS"

ENGINEERING TRAINING OF RESCUERS

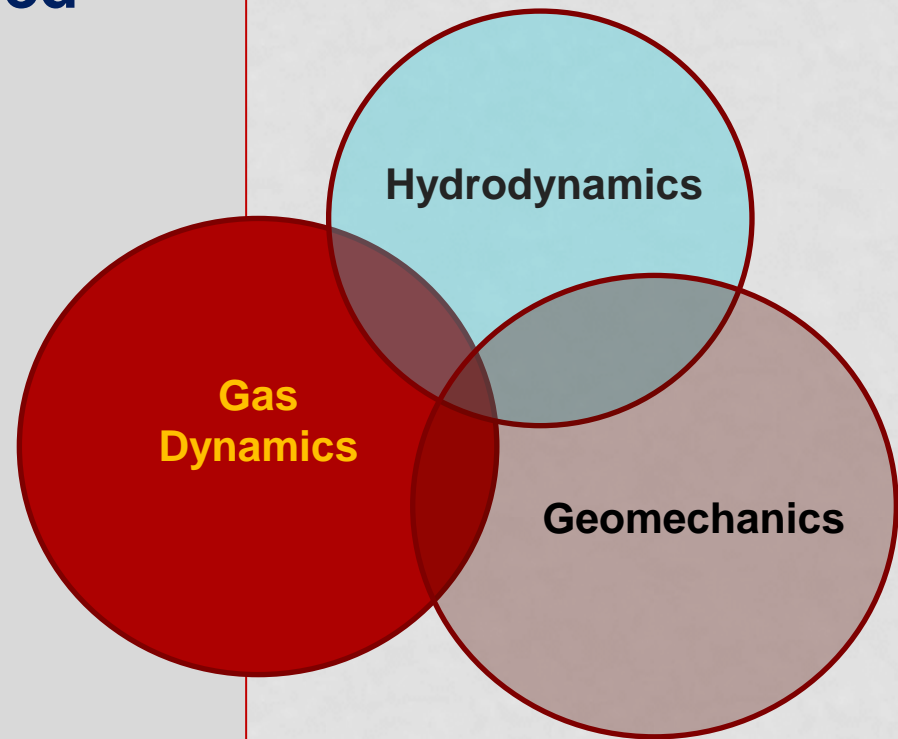
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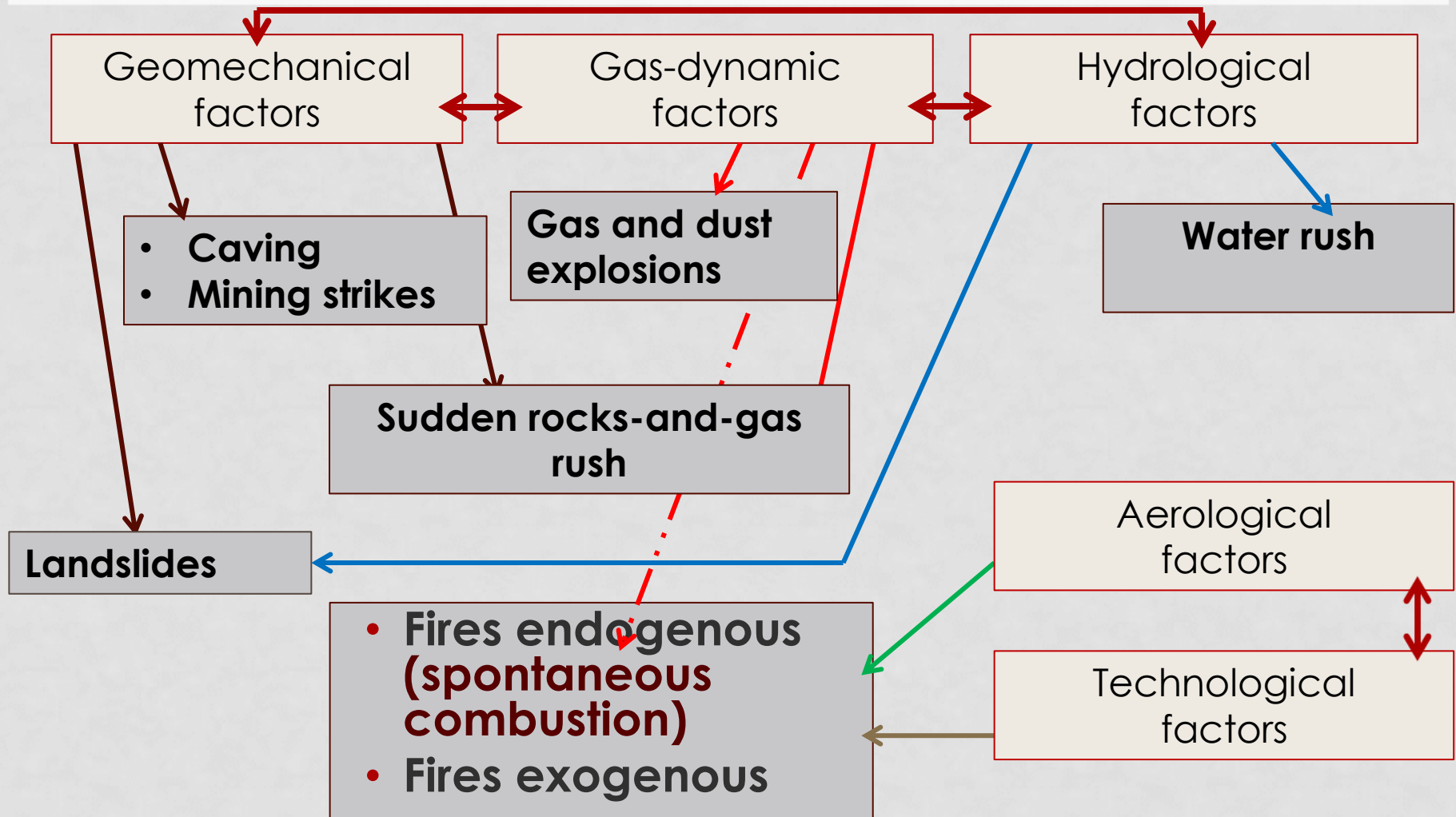


A SYSTEMATIC APPROACH TO ENSURING THE SAFETY OF MINING AND RESCUE OPERATIONS

A set of solutions is determined by geological conditions, by response of the array onto its breaking, i.e. by the character of **geomechanical**, **hydrodynamic** and **gasdynamic** processes and their interaction .



THE INTERACTION OF THE FACTORS OF ACCIDENTS RATE IN MINING INDUSTRY



THE STRUCTURE OF THE TRAINING PROGRAM

1. Mandatory topics (lectures, laboratory and/or practical classes):

- Fundamentals of geomechanics
- Ventilation of mines
- The basics of mining aerogasdynamics
- Endogenous fires in coal mines
- Mine drainage
- The strategy and tactics of elimination of accidents

2. Variable topics (regional selection):

- ✓ *Organization of works on liquidation of accidents*
- ✓ *Methods for calculating measures on localization and liquidation of consequences of accidents*
- ✓ *Fire equipment*

3. Independent calculation-graphical work (final qualifying work)

THE RECOMMENDED AMOUNT OF TRAINING

**Commanders
rescuers**

+

Mines supervisors to
eliminate accidents

Ordinary rescuers

+

**Voluntary
mine rescue
teams**

Total

Not less than
150 hour

Not less than 72
hour

Including:

Not less than 86 hour

Not less than 40 hour

Not less than 24 hour

Not less than 24 hour

40 hour
(final qualifying work)

8 hour
(exam)

mandatory

variable

final attestation

SUGGESTIONS

- **Adopt requirements for mandatory content and minimum duration of the programme training of persons engaged in rescue work at mines (mine rescue brigade and the coal mine personnel)**
- **to create a common basic program for the training of mine rescue brigade commanders and heads of works on liquidation of accidents mine**
- **to create a common basic program for the training of ordinary rescuers and members of the volunteer mine rescue teams**

СПАСИБО ЗА ВНИМАНИЕ !

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Thank you for your attention!