

**Eye safety
at the workplace and
sportplace**

- More than 2,000 people injure their eyes at work each day.
- More than 90 percent of these injuries can be prevented.

The common causes of eye injuries

- Flying objects (bits of metal, glass, etc.)
- Tools
- Particles
- Chemicals
- Any combination of these or other hazards

Defense against an eye injury in work

- Know the eye safety dangers at work-
complete an eye hazard assessment
- Eliminate hazards before starting work.
- Use proper eye protection.

Vymyho prezentace!!!

• X

Sports Eye Safety



- Sports cause more than 40,000 eye injuries each year.
- More than 90 percent of these injuries can be prevented

Sports can be classified as:

- Low-risk sports do not use a ball, puck, stick or racquet, and they don't involve body contact. Some low-risk sports are track, swimming, gymnastics, chess, etc.
- High-risk sports use a ball, puck, bat, racquet, or they involve body contact. Some high-risk sports are baseball, basketball, hockey, football, lacrosse, etc.
- Very-high-risk sports involve body contact and do not use eye protectors. Some very-high-risk sports are boxing, wrestling, and contact martial arts.

Defense against an eye injury

- You have to protect your eyes on sports activitys
- Don't play any games with people who haven't their body under the control
- Use proper eye protection.

Sports glasses



www.abchod-hybareni.cz

We could use the sport glasses for example by:

Individual sports:

- Volleybal
- Golf
- Diving
- Cycling
- Target practice
- Skiing or cross country skiing
- swimming

Collective sports:

- Hockey
- Volleyball
- Laccrose



Requirements for fabrication:

- Water resistant
- Sunshine reflexion (UV filters)
- Hot weather resistant
- Damage resistant
- Anticloud arrangement
- Possibility to wear contact lens
- Good accommodation

The sport glasses can contain a corrective reduction!!!

- **Water resistance** — the glasses should prevent from water penetrating on eye's-surface (salt and impurity)
- Using in sport: - diving
- swimming



- Sunshine reflection (UV filters)

- the goggles has to let go only filtered lightbeams without UV shining and protect the retina
- The polycarbonat lens with different colours have a different reflection
- people requir sharpness in the sight (possibility to aplicate the dioptric lens)



Using in sport: - cycling (protection from sun and wind)



Dioptrická vložka



Requirements for cycling glasses:

- Good airing
- Adhesion to face and forehead
- Limitlessness of visual field
- Elasticity, resistivity of destruction
- The arm with right ending
- Soft bridge
- Eye pad for correction glasses lens
- Polarization filter „Light Stabilizing Technology“

- Anticloud arrangement – special surface adjustment useful by skiing and snowboarding (sometimes „double-lens systém“)



Goggles:

- UV filter of high quality!!!
(The light beams reflex from snow flake)

- Fogging elimination systém

Goggles for Motocross Racing

- Interchangeable pad



- **Good Accommodation** — optimal position of the bridge => variations in the lens height => accommodation an individual's shooting position



Glasses for Shotgun Shooting:

- Narrow bridge allows peripheral vision in nasal portion of lens
- Fogging elimination system
- Holding the glasses in place by cable temples
- Wide field of vision
- Right color of the lenses defines a target

Requirements for safety:

- The plastic lens and frame

Glass trashes could injure your eyes!!!

- Warmness rezistantion

The sport glasses producers:

- Adidas



- Rudy Project



- TAG Heuer



- Oakley



- Bollé



- UVEX

- Semper paratus

•Keep it !