# 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 workcomplete an eye hazard assessment

Eliminate hazards before starting work.

Use proper eye protection.

# Vymyho prezentace!!!



# 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, chees, 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





# 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:

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

The sport glasses can contain a corective reduction!!!

• Watter rezistantion — the glasses should prevent from

Using in sport: - diving

- swimming

the glasses should prevent from watter penetrating on eye's-surface (salt and impurity)



### 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)



#### Requirements for cycling glasses:

- Good airing
- Adhesion to face and forehead
- Limitlessness of visual field
- Elesticion, resistivity of destruction
- The arm with right ending
- Soft bridge
- Eyepit 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:

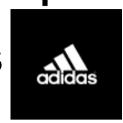
The plastic lens and frame

Glass trashes could injure your eyes!!!

Warmness rezistantion

# The sport glasses producents:

Adidas



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TAG Heuer





Oakley



• Bollé



UVEX

Semper paratus

•Keep it!