

INDUSTRIAL EYE ACCIDENTS

What you should know

What you should do

VISION SERVICES



PROTECT THE EYES FROM HARM



PROTECT THE EYES FROM HARM

**MOST ACCIDENTS ARE
AVOIDABLE !!!!**

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The Alternative ...

- ❑ Wearing protective glasses
- ❑ that cost as little as \$ 50 !!
- ❑ MORE IMPORTANTLY,
- ❑ THOSE GLASSES WILL SAVE YOUR EYES.
- ❑ It only takes a split second to injure your eye.
- ❑ But it takes a lot more time (and money) to heal.



Accident Causing Factors

- **Basic Causes**

- Management
- Environmental
- Equipment
- Human Behavior

- **Indirect Causes**

- Unsafe Acts
- Unsafe Conditions

- **Direct Causes**

- Slips, Trips, Falls
- Caught In
- Run Over
- Chemical Exposure
- Invisible Dangers
- i.e UV & IR

EYE PROTECTION

- **Most Important!!!..... BCVA**
- **Glasses, Contact lenses or Surgery**
- **Establish great Stereoscopic Vision.**
- **Or know the Visual Deficiency and adjust for it.**

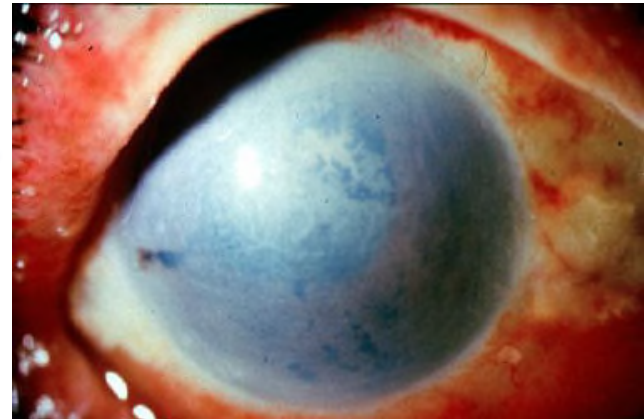
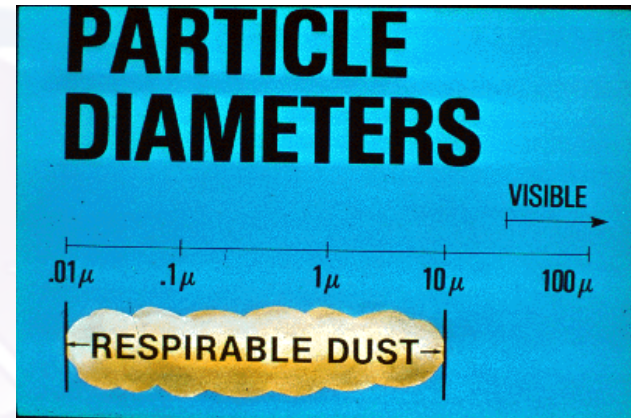
Why should we be concerned with Eye Safety?

- Dozens of Eye injuries of all types occur every year.
- 10% to 20% of these injuries result in temporary or permanent vision loss.
- 60% of people who sustain injuries were NOT wearing eye protection.



What are some causes of eye injuries?

- Flying objects – A survey conducted by the Bureau of Labor Statistics (US), found that about 70% of eye injuries were caused by flying debris or falling objects
- Contact with Chemicals
- Invisible Noxious Elements
- Misuse of tools, Improper guards, Poor maintenance, Poor safety habits



what is getting into your eyes?

Solvent
splashes

liquids or gases under
PRESSURE

Nails

Electrical
Sparks

Insulation
fibers



Radiation

Welding Fumes

Solder
specks

grinding
dust

Bits of
Glass
OF WIRE

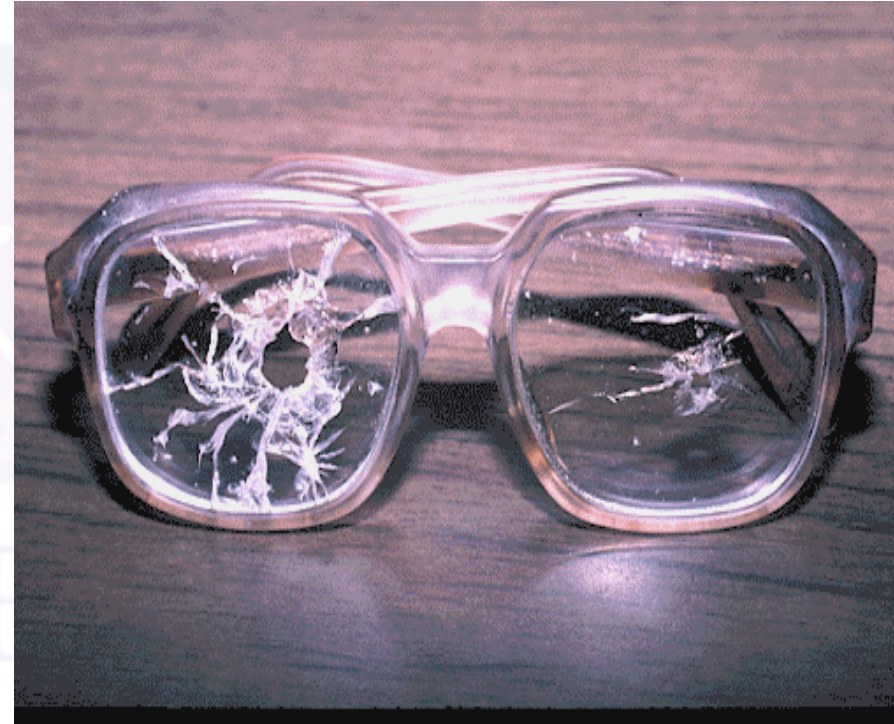
Remember the Innocent Bystander

Some injuries occur simply by passing a work area or working next to someone who is grinding, sawing, or welding.



What are Safety Glasses?

- Not ALL EYEWEAR is “SAFETY GLASS”
- KNOW WHAT YOU ARE GETTING !!!!!



You should always use the appropriate eyewear for the job



What are the different kinds of eye protection?

- Glass
- Plastic
- Polycarbonate
- Shielded safety glasses
- Goggles
- Full Face shields



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Glass Lenses

- Glass lenses provide good scratch resistance
- They can withstand chemical exposure
- They can accommodate a large number of prescriptions strengths



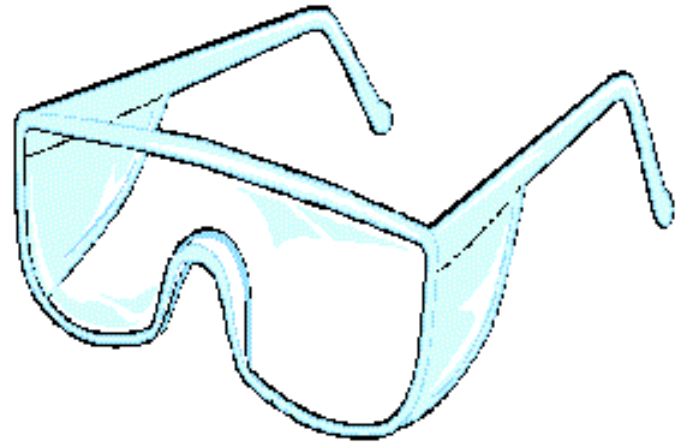
Plastic and polycarbonate

- Light weight
- Protect against welding splatter
- Less likely to fog up
- Scratch Easily
- Polycarbonate almost “Bullet proof”.
- Very thick with high prescriptions



Safety glasses should be shielded

- Shielding provides better protection from flying debris
- It provides protection against chemicals which may be suspended in the air



Goggles

- Goggles provide greater protection from splashes, liquids and dusts than shielded safety glasses
- They should fit tightly against your face
- They provide the best protection against liquid pesticides and other toxic chemicals



Face shields

- Face shields are used where you have a very high chance of exposure to an airborne substance
- A face shield by itself is not enough to protect your eyes by itself;
- **It should be worn with approved safety glasses!!**



Tips to protect your eyes

- Wear goggles or a face shield when likely to encounter:
 - Flying particles or liquids,
 - Electrical arcing or sparks, chemical gases or vapors
 - Harmful lights
 - Molten metal
 - Swinging objects like ropes or chains
- Turn containers away from the face when opening
- Remove protective eye wear only after turning off the equipment
- Outdated or scratched prescription lenses can distort vision
- They can break more easily

Tips to protect your eyes

- Replace cracked, pitted or damaged goggles or glasses
- Concentrate on task at hand when using power tools
- Stop and relax the eyes if they are becoming strained
- Be certain that protective eye wear is approved for the hazardous environment you are in
- Keep sharp or pointed objects away from the face and eyes
- DO NOT Engage in frivolous banter while at work.
- It distracts concentration & leads to injury.

Z-87 WORLD STANDARD

- As of July 5th, 1994, all glasses must meet the minimum standards set forth by the American National Standards Institute.
- Approved lenses are marked by the manufacturer.
- All lenses must have the correct treatment dictated by the work environment e.g. UV blockage where appropriate
- Z87 will be required on all other major components
- The standard has been adopted throughout most of the Western World

Remember: Safety Glasses WORK!!

- **SO USE THEM!**
- Not ALL EYEWEAR is “SAFETY GLASS”
- KNOW WHAT YOU ARE GETTING !!!
- NOT ALL SAFETY GLASSES ARE UGLY !!



Eye protection: The right fit ...

- **COSMESIS is not important on the job!**
- **You can put your makeup on after work**

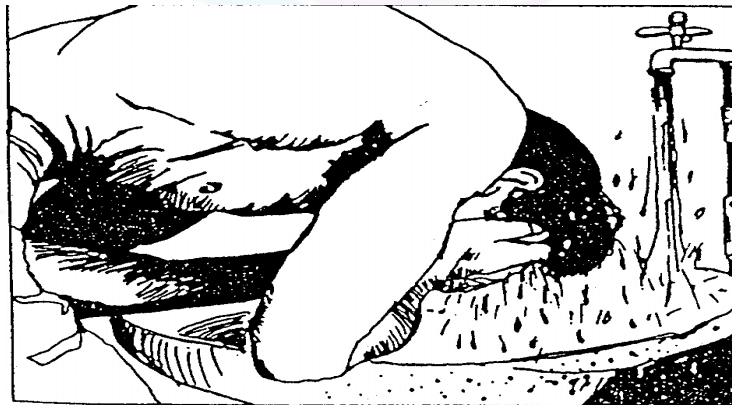


what to do if you get something in your eye

DON'T RUB IT!

Rinse with clean water for
at least 15-20 minutes.

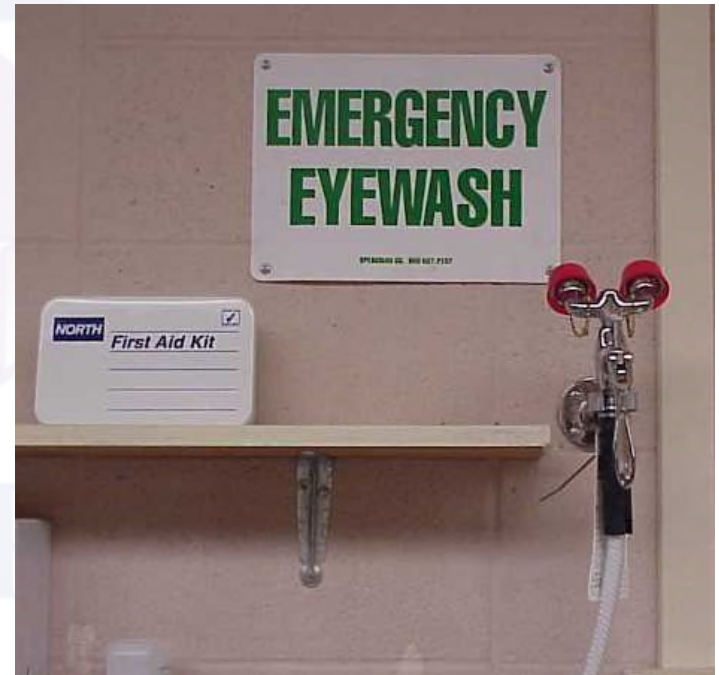
ANSI-approved eyewash
stations are best. Eyewash bottles
are not approved.



BUT ANY CLEAN WATER WILL DO !!

What to do in case of an eye injury

- **Foreign material liquid. Do the following: –**
- **Flush your eye with eyewash solution for 15-20 minutes.**
- **Have someone call for medical attention, while you are flushing**
- **The Material Safety Data sheet and label will give first aid instructions**
- **Before visiting the doctor or emergency rooms please take with you the necessary data regarding the noxious substance.**



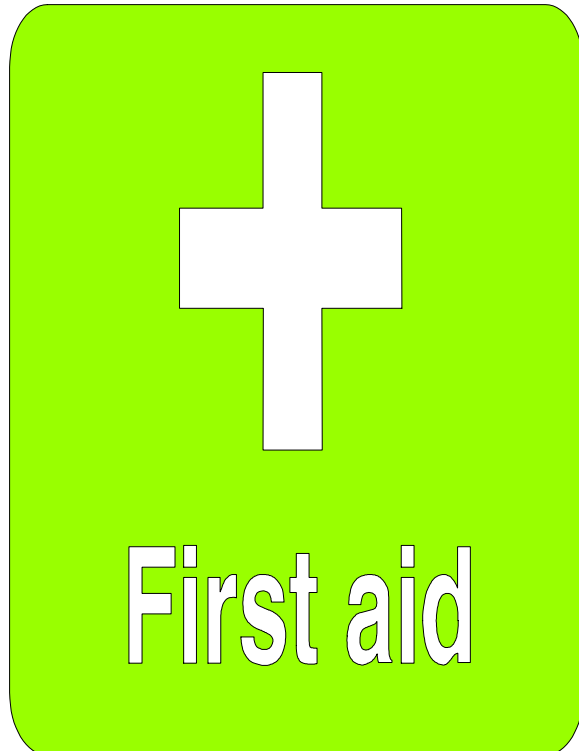
EyeShield or “MacGyver” it,



NO PATCHES!!!



what next ???



Get medical attention!!!!

**Ask the safety supervisor or first aid person to take a look at your eye.
You might even need a trip to the ER.**



what about a cut or puncture?

- ❑ **DON'T** wash your eye
- ❑ **DON'T** touch your eye
- ❑ **DON'T** lift the upper lid of your eye!
- ❑ **Do** place an Eye Shield or MacGyver it



like the Beatles song says, “let it be....”



Get medical attention immediately!!

Workplace Safety:

Are you ready for your workday?

- Do you have your SAFETY GLASSES?**
- Are they HANDY?**
- Do they FIT properly?**
- Do you know where the nearest EYEWASH STATIONS are from your work area?**
- Do you know how to get MEDICAL ATTENTION if needed?**

Things to think about...

WHAT WILL YOU BE DOING TODAY ?

WILL YOU BE:

- using a power tool?
- drilling?
- working overhead?
- working near someone who is using a power tool, welding, drilling, soldering, grinding, or working overhead?



EYE SAFETY QUIZ

1. Safety glasses can be bad for your eyes. T or F
2. Safety glasses that have scratches or pits do not need to be replaced. T or F
3. Contact lenses provide enough safety in a work environment so you don't need safety glasses. T or F
4. Face shields by themselves offer adequate eye protection. T or F
5. Industrial safety glasses can be made with your own prescription. T or F
6. All eyeglasses sold in St. Kitts/Nevis are required to be impact resistant. T or F
7. The differences between glass, plastic and polycarbonate lenses are minimal. T or F

Have a Safe Work Day!

Don't forget to wear your eye gear!



Let us join Together
to

Reduce avoidable
blindness and severe
visual impairment.



THANK YOU!!!



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QUESTIONS

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