

- **GLOBE**
- **Safety**

- ICASE: International Committee of Associations of Science Education
 - Sandra S. West, Ph.D. ICASE Safety Committee

Legal Aspects

Know the Requirements

- Federal & state
- District

GLOBE Protocols

- “Materials & Tools”
- “Safety Precautions”
- Chemicals
 - Use
 - Storage
 - Disposal

What is the
Acceptable
Number of Times ?

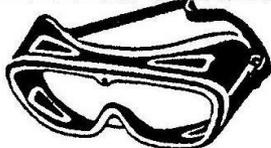
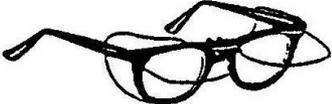
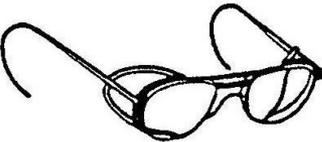
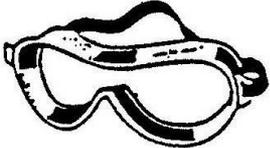
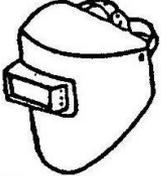
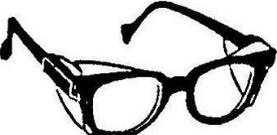
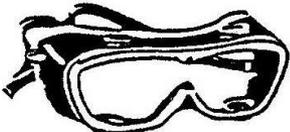
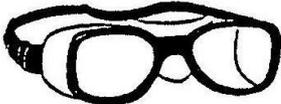
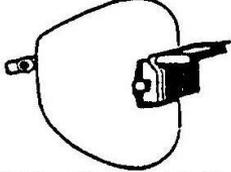
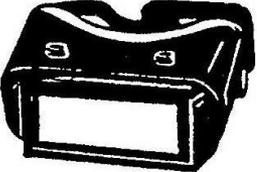


EYE AND FACE PROTECTION

Match Protection w/ Hazard

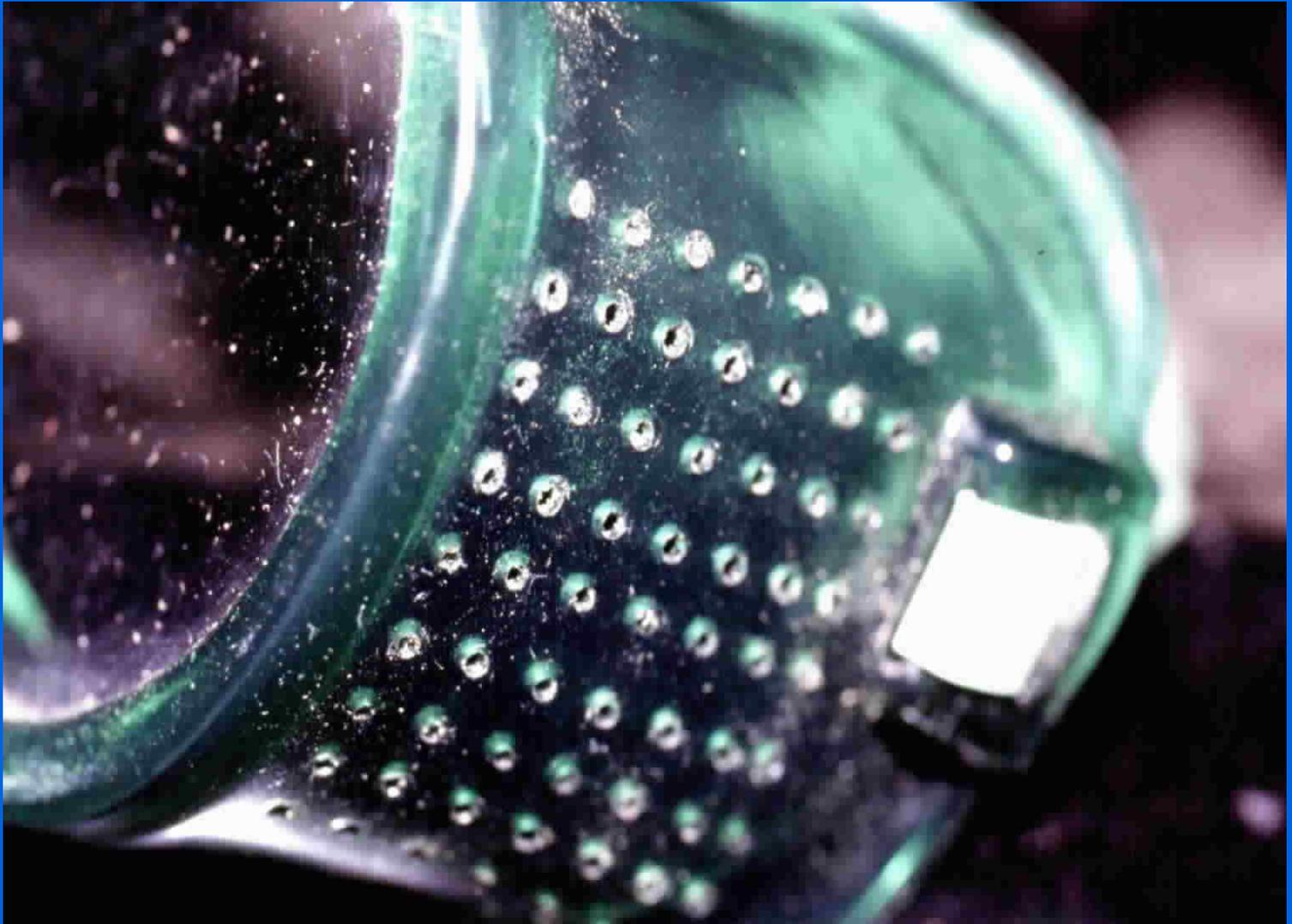
AMERICAN NATIONAL STANDARD Z87.1-1989

PROTECTIVE DEVICES

<p>A.</p>  <p>Spectacle, No Sideshield</p>	<p>E.</p>  <p>Spectacle, Non-Removable Lens</p>	<p>I.</p>  <p>Cover Goggle, Direct Ventilation</p>	<p>N.</p>  <p>Faceshield</p>
<p>B.</p>  <p>Spectacle, Half Sideshield</p>	<p>F.</p>  <p>Spectacle, Lift Front</p>	<p>J.</p>  <p>Cup Goggle, Direct Ventilation</p>	<p>O.</p>  <p>Welding Helmet, Hand Held</p>
<p>C.</p>  <p>Spectacle, Full Sideshield</p>	<p>G.</p>  <p>Cover Goggle, No Ventilation</p>	<p>K.</p>  <p>Cup Goggle, Indirect Ventilation</p>	<p>P.</p>  <p>Welding Helmet, Stationary Window</p>
<p>D.</p>  <p>Spectacle, Detachable Sideshield</p>	<p>H.</p>  <p>Cover Goggle, Indirect Ventilation</p>	<p>L.</p>  <p>Spectacle, Headband Temple</p>	<p>Q.</p>  <p>Welding Helmet, Lift Front</p>
<p>*The illustrations shown are only representative of protective devices commonly available at the time of the writing of this standard. Protective devices do not need to take the forms shown, but must meet the requirements of the standard.</p>			<p>M.</p>  <p>Cover Welding Goggle, Indirect Ventilation</p>

• Best Choice?





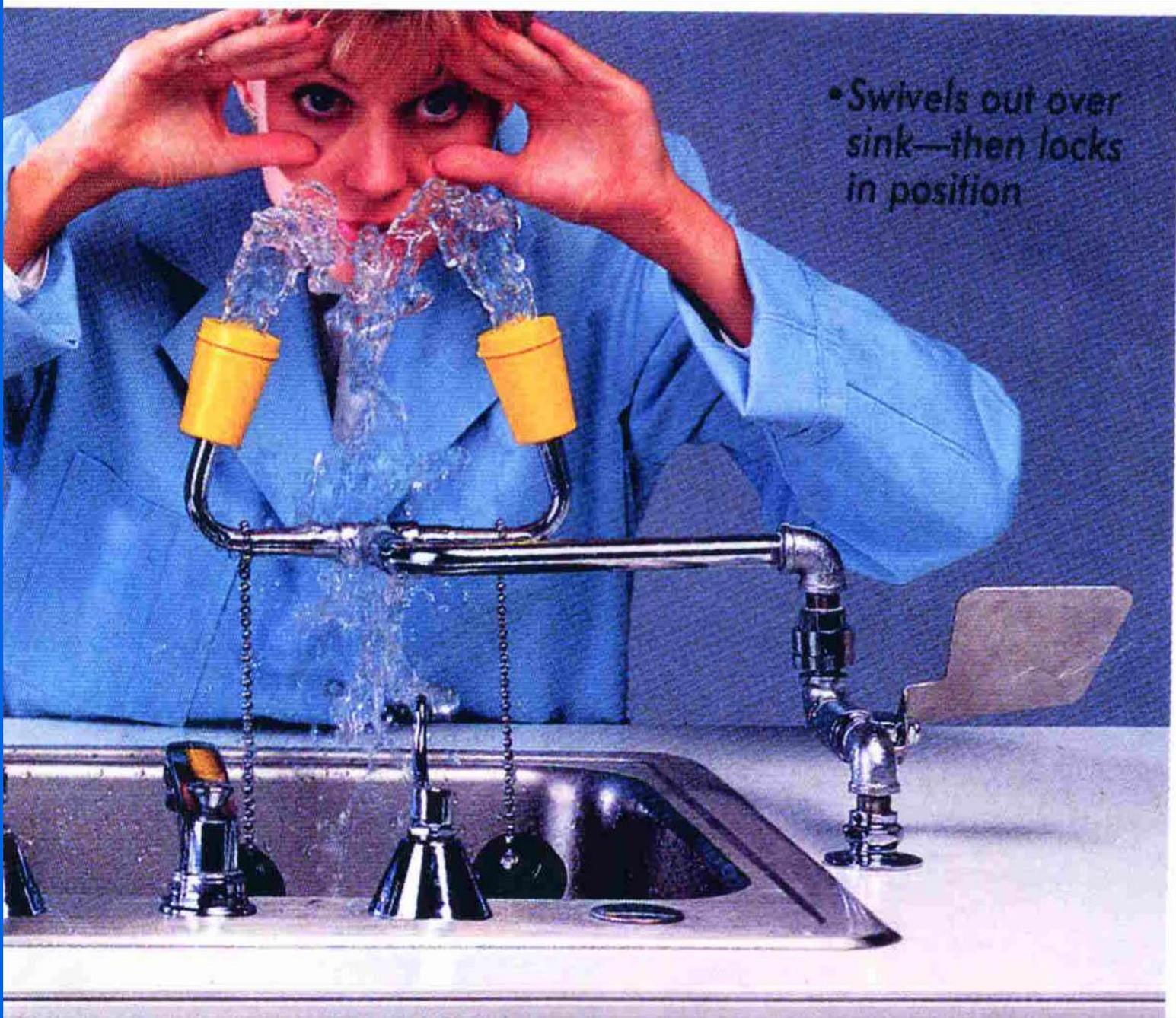




•Eye wash

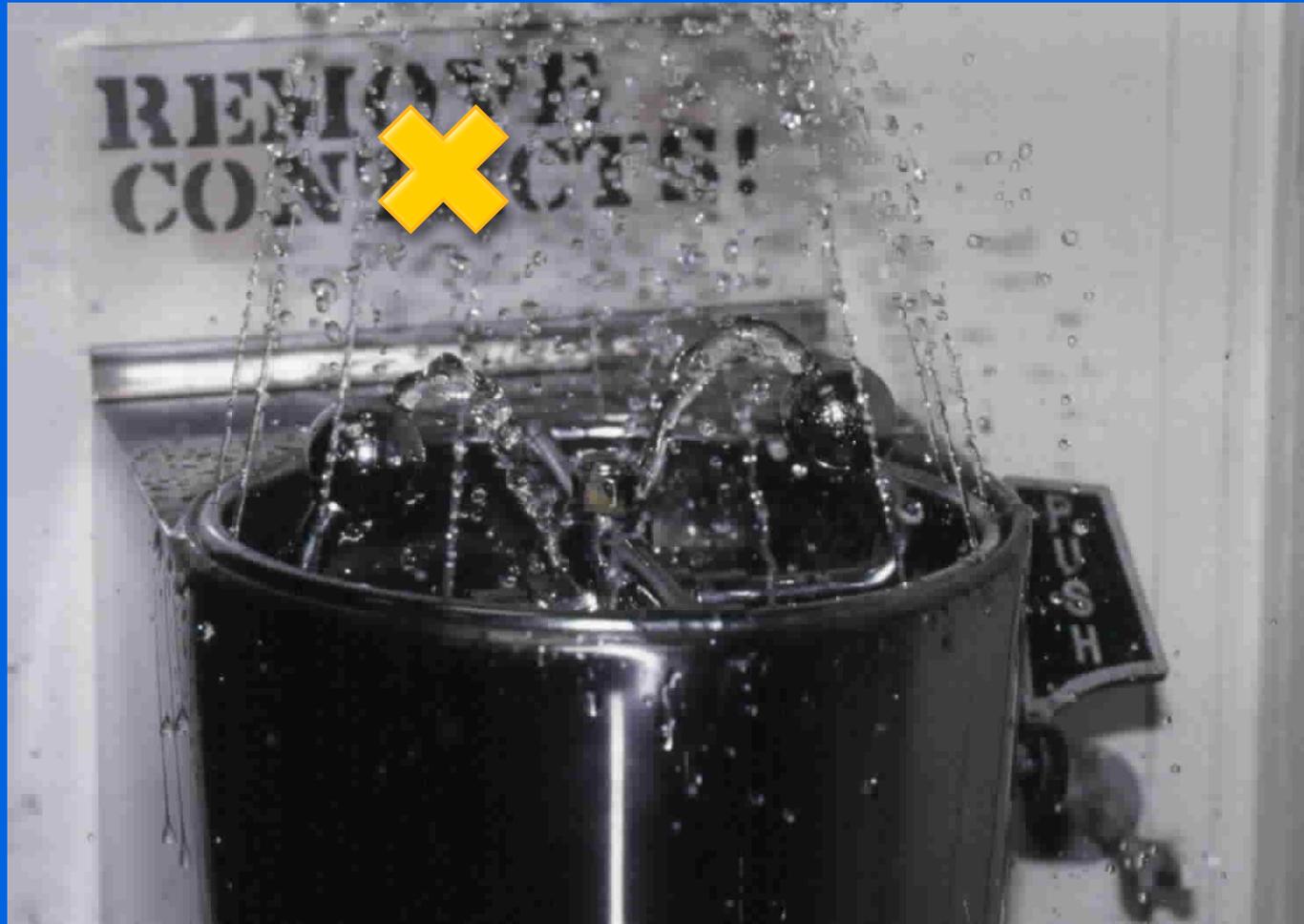
- Dual
- Hands free
- 15 min.
- Tepid
- Flush weekly





- Swivels out over sink—then locks in position

- Contacts OK
- Amer. Opth. Assoc.



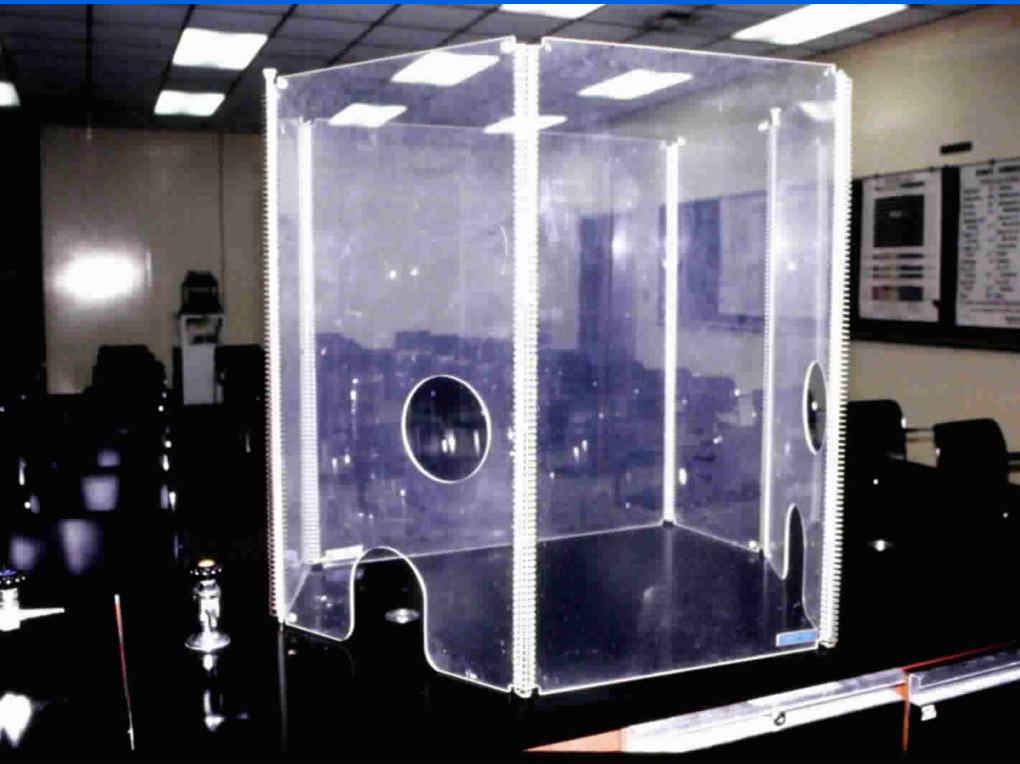
•2-Step



•Drench



Portable Shield



Most Accidents

- Cuts
- Burns
 - Fire
 - Chemical

Gloves

Match Protection w/ Hazard



•Fire Control

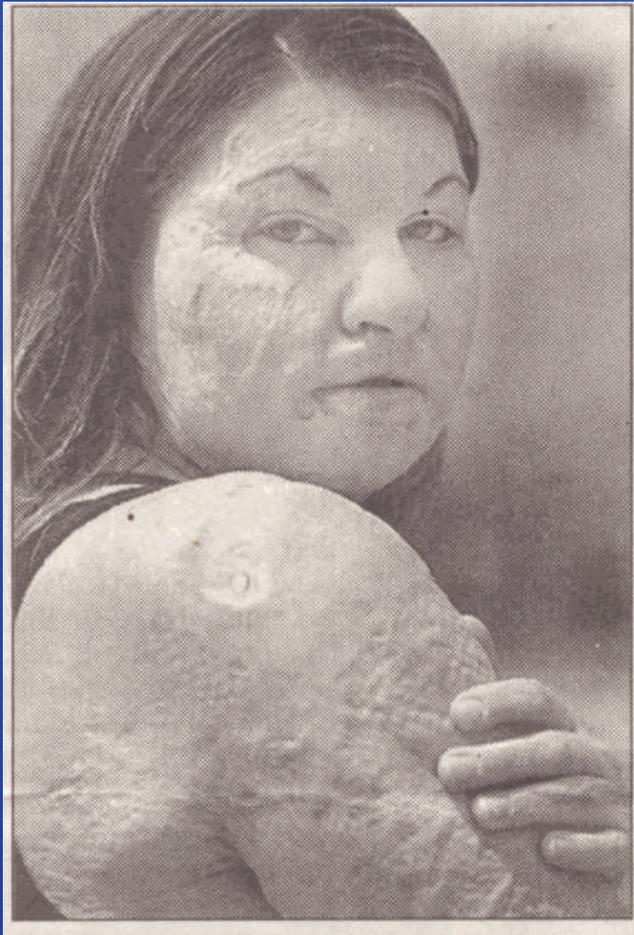


Tx
Tech
U.



Fire Control

- Autum Burton, MI



•50%



Taylor Delz, Tx



• Flammable chemicals

- MSDS review

 - Safe

 - Handling

 - Storage

 - Disposal

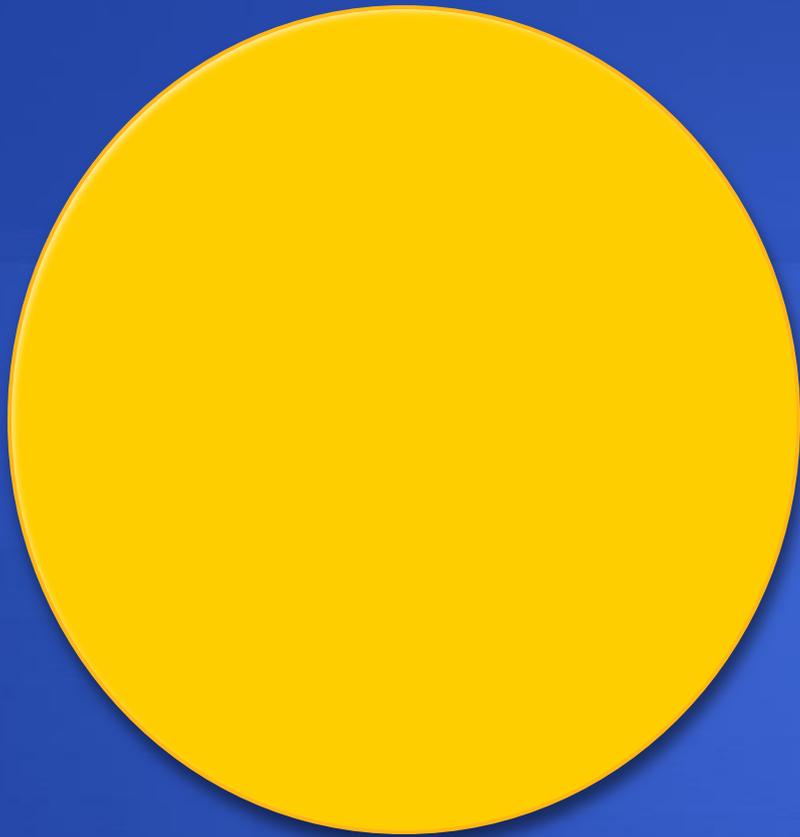
- Chemical Labels

 - 1° - Name, hazard, Co.

 - 2° - Name, hazard

Focus on Safety

- Constant
 - Initial
 - Each activity
 - Each assessment



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