

Optimization of the Glacier National Park OSHA Training Program

L. Benjamin, R. Carter, L. Masse, N. Meyer, E. Andreassen

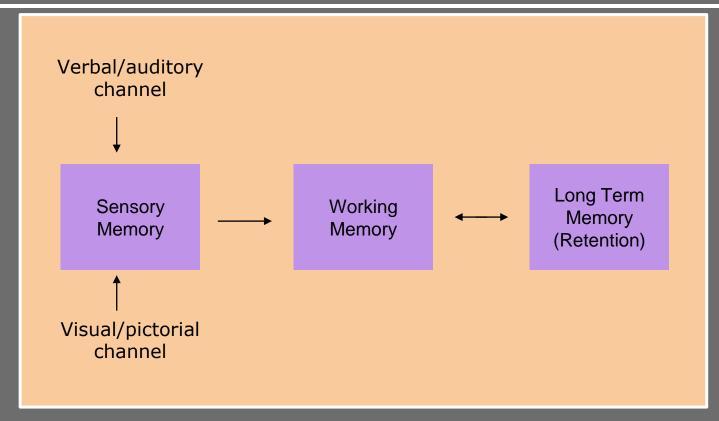
The OSHA Safety Training Video



Goal

Optimize and improve the OSHA training program and provide informed recommendations for the improvement of all presentation material.

Cognitive Load Theory



Techniques For Optimizing Cognitive Load

- Weeding
- Signaling
- Segmenting
- Matching Modality



Weeding





Unbroken skin forms an impervious barrier against bloodborne pathogens. Infected blood can enter your system through:

- Open sores
- Cuts
- Abrasions
- Acne
- Any sort of damaged or broken skins such as sunburn or blisters

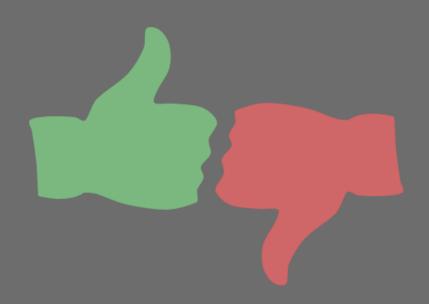
Bloodborne Pathogens may also be transmitted through the mucous membranes of the:

- Eyes
- Nose
- Mouth

Example: a splash of contaminated blood to your eyes, nose, or mouth could result in transmission.

40:46

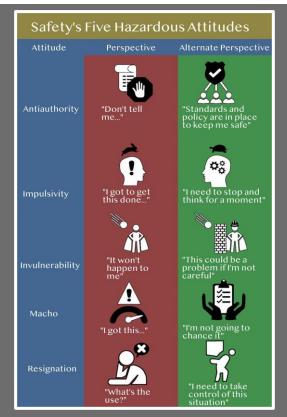
Signaling



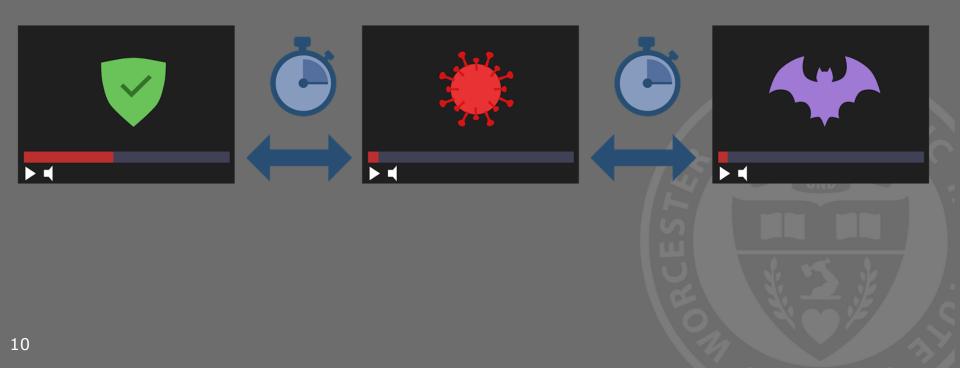


Signaling With Color

Safety's Five Hazardous Attitudes		
<u>Attitude</u>	<u>Perspective</u>	<u> Alternate Perspective</u>
1. Antiauthority	"Don't tell me…"	"Standards and policy are in place to help me go home today as healthy as when I showed up".
2. Impulsivity	"I got to get this done"	"Wait, I need to stop and think for a moment".
3. Invulnerability	"It won't happen to me."	"This could be a problem if I'm not careful".
4. Macho	"I got this"	"I'm not going to chance it".
5. Resignation	"What's the use?"	"I need to take control of this situation".



Segmenting



Applying Segmenting

- Opportunities:
 - COVID-19
 - Bloodborne pathogens
 - Rabies
- Clear distinctions, time breaks
- NOTE: Video medium makes this easier



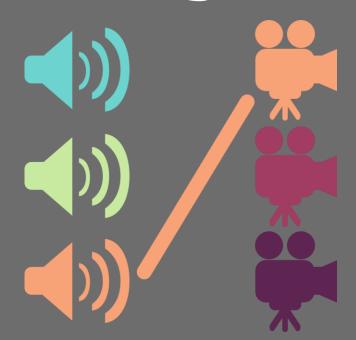
HAZCOM

Hazard

Communication

18:45

Matching Modality





Supervisor



- Safeguard human life as highest priority.
- Exercise the principles of Operational Leadership (OL).
- Train and inform staff how to do the job safely (OL).
- Utilize Job Hazard Analysis (JHAs) before starting work.
- Provide Personal Protective Equipment (PPE).
- Empower staff to speak up if they observe a task or operation that has unnecessary risk, they have not received proper training or equipment is not adequate.
- Praise staff when they do speak up and contribute to the safety of operations.
- Stop work if risk cannot be properly mitigated.



Improve production value



From https://kdenlive.org/en/



From https://www.bluemic.com/

Snowball iCE USB Mic

Worcester Polytechnic Institute

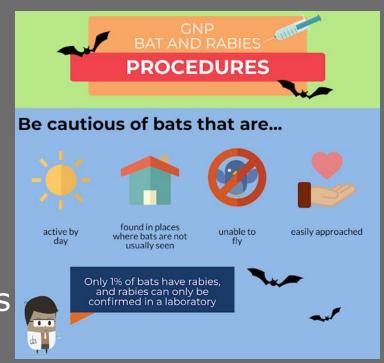
- Improve production value
- Adjust presentation voice



- Improve production value
- Adjust presentation voice
- Improve interactivity



- Improve production value
- Adjust presentation voice
- Improve interactivity
- Utilize improved infographics



Special Thanks to:

Tara Carolin Sarah Moody Renata Harrison Ginger Rigdon Diane Sine Scott Allen



https://www.worldwildlife.org/blogs/good-nature-travel/posts/the-wildlife-of-glacier-national-park

Questions?

