



**Department of Safety and
Professional Services**

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<https://dps.wi.gov/pages/Home.aspx>

PERSONAL PROTECTIVE EQUIPMENT

AWARENESS TRAINING

FOR SCHOOLS


OBJECTIVES



Provide information on
the selection and use of
PPE in schools



COVID-19 as of June
2, 2020



PERSONAL PROTECTIVE EQUIPMENT (PPE) CONSIDERATION FOR SCHOOLS

- **Face Cloth Covering or Face Mask**-protect others from wearer
- **Fluid Resistant Surgical Mask** -protect mouth/nose from liquid splashes
- **N95 or higher respirator (half/full face or PAPR)**-protect mouth/nose
- **Protective Glasses or Goggles** -protect eyes from liquid splashes
- **Face Shield** -protect face, mouth, nose, and eyes
- **Gown (Disposable)**-protect clothing
- **Lab Coat or other washable Cloth Covering (Scrub Jacket)** -protect clothing
- **Gloves**- protect hands

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N95 RESPIRATOR VS PAPR

Respirator- N95



- Evaluated, tested and approved by NIOSH
- Reduces wearer's exposure to particles including small particle aerosols and large droplets
- Tight fitting face seal
- Fit testing required
- User seal check required each time respirator is put on
- Filters out at least 95% of airborne particles including large and small particles
- When properly fitted and worn, minimal leakage occurs around respirator edges when user inhales
- Single use, or replacement if damaged, deformed or soiled

Respirator – PAPR



- Reusable components and replaceable filters or cartridges
- Can be used to protect against gases, vapors, or particles, if equipped with the appropriate cartage, canister or filter
- Battery –powered with blower that pulls air thru attached filters or cartridges
- Provides eye protection
- Low breathing resistance
- Loose-fitting PAPR does NOT require fit testing and can be used with facial hair
- Tight-fitting PAPR requires fit testing

HALF & FULL FACEPIECE RESPIRATORS

Elastomeric Half Facepiece Respirator

- Reusable facepiece and replaceable canisters, cartridges, or filters
- Must use appropriate cartridge, canister or filter
- Fit testing required



Elastomeric Full Facepiece Respirator

- Reusable facepiece and replaceable canisters, cartridges, or filters
- Must use appropriate cartridge, canister or filter
- Provides eye protection
- More effective face seal than elastomeric half-facepiece respirators
- Fit testing required



SURGICAL MASK VS CLOTH FACE COVERING



Surgical Mask

Mask

- Cleared by the U.S. Food and Drug Administration
- Fluid resistant and provides the wearer protection against large droplets, splashes, or sprays of bodily or other hazardous fluids. Protects the patient from the wearer's respiratory emissions.
- Loose-fitting
- No fit test required
- No user seal check required
- Does NOT provide the wearer with a reliable level of protection from inhaling smaller airborne particles and is not considered respiratory protection
- Leakage occurs around the edge of the mask when the user inhales
- Disposable



Cloth Face Covering

- Cloth face coverings may slow the spread of the virus and help people who may have the virus and do not know it from transmitting it to others.
- COVID-19 can be spread by people who do not have symptoms and do not know that they are infected.
- Cloth face coverings provide an extra layer to help prevent the respiratory droplets from traveling in the air and onto other people.

N95

HALF/FULL FACE
RESPIRATOR

PAPR

**These respirators
require:**

- Comprehensive program (including medical clearance, training, and fit testing) that complies with OSHA's Respiratory Protection Standard.
- Program should also include provisions for the cleaning, disinfecting, inspection, repair, and storage of respirators used by HCP on the job according to manufacturer's instructions.

When to Wear:
performing
procedures, such as
suctioning or
nebulizer treatments
that aerosolize
respiratory secretions.

Not everyone
can use one
due to their
own health
issues.

Specific
training will be
provided if you
wear a N95,
Half/Full Face
or PAPR

FACE MASKS & CLOTH FACE COVERINGS

- Wear a face covering to help protect others in case you're infected but don't have symptoms
- Keep the covering on your face the entire time you're in public
- Mask needs to cover over nose to below chin
- **Don't** put the covering around your neck or up on your forehead
- **Don't** touch the face covering, and, if you do, wash your hands
- Should NOT be worn when:
 - Person is incapacitated or otherwise unable to remove the cloth face covering without assistance
 - While engaging in physical activity
 - Children less than 2 years old

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FACE & EYE PROTECTION

Eye

- It's important to make sure that your eye and face protection is put on properly and comfortably so that you are not adjusting it with your contaminated hands or that it falls off during use.

Face

- Face shields protect face, nose, mouth and eyes
- Should cover forehead, extend below chin and wrap around side of face
- Goggles or safety glasses need to be worn under a face shield

WHEN TO USE GLOVES

- When cleaning
- When you are routinely cleaning and disinfecting
- Follow precautions listed on the disinfectant product label, which may include-
 - wearing gloves (reusable or disposable) and
 - having good ventilation by turning on a fan or opening a window to get fresh air into the room you're cleaning.
- Possible contact with Bloodborne pathogens
- Use disposable gloves when touching or having contact with blood, stool, or body fluids, such as saliva, mucus, vomit, and urine.
- Do NOT reuse disposable gloves



HOW TO SAFELY PUT ON, USE AND REMOVE PPE





KEY POINTS ABOUT PPE



Put on before potential incident



Use carefully – don't spread contamination, e.g. touching surfaces with contaminated gloves



Remove and discard carefully, contaminated PPE is a source of exposure to you



Immediately wash your hands and/or body parts as applicable to your situation

PUT ON MASK OR FACE COVERING CORRECTLY



- Wash your hands before putting on your face covering
- Put it over your nose and mouth and secure it under your chin
- Try to fit it snugly against the sides of your face
- Make sure you can breathe easily

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TAKE OFF MASK OR FACE COVERING CORRECTLY



- Untie the strings behind your head or stretch the ear loops
- Handle only by the ear loops or ties
- Fold outside corners together
- Place washable face covering in the washing machine,
- Place disposable surgical mask in waste container
- Be careful not to touch your eyes, nose, and mouth when removing
- Wash hands immediately after removing

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PUTTING ON EYE AND FACE PROTECTION

Eye

- Position goggles or glasses over eyes and secure to your head using earpieces or headband



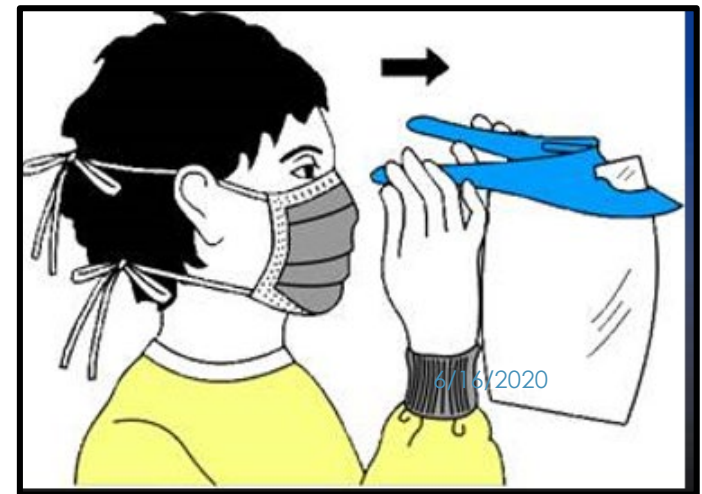
Face Shield

- Position face shield over face and secure on brow with headband
- Adjust to fit comfortably



REMOVE GLASSES OR FACE SHIELD

- Grasp ear or head pieces with ungloved hands
- Lift away from face
- Place in designated receptacle for reprocessing or disposal



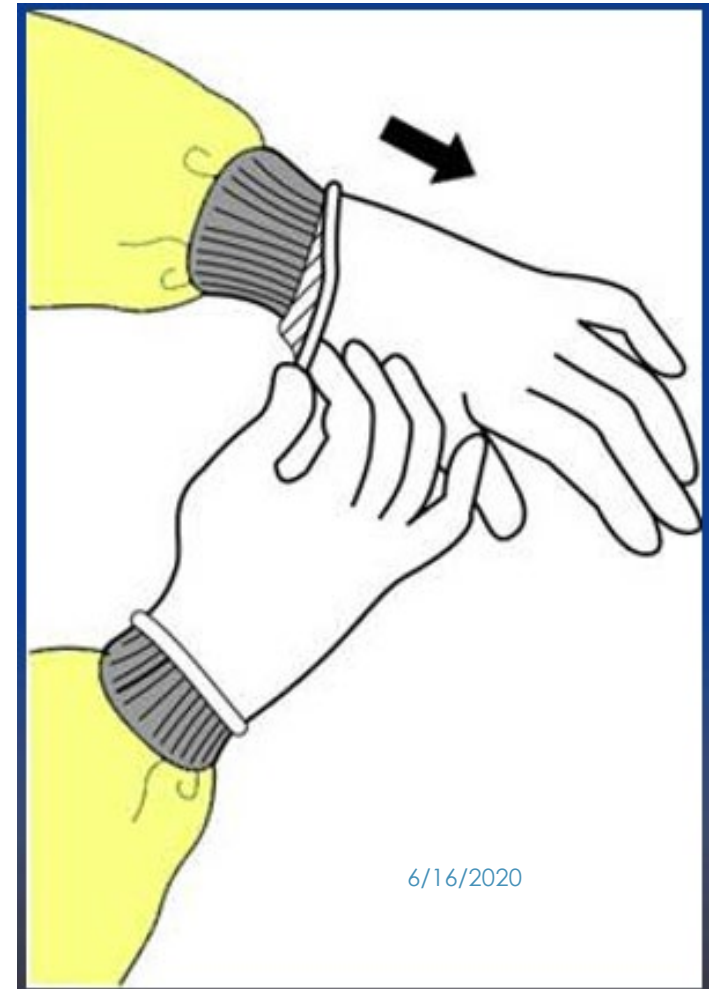
GLOVES

- Limited/no protection when heavily soiled, torn or have holes
- Avoid “touch contamination”
 - Don’t touch your face or adjust PPE with contaminated gloves
 - Don’t touch other surfaces except as necessary
- Change Gloves
 - During use if torn and when heavily soiled
 - When contamination event is over, don’t begin another task until you have decontaminated
- Discard gloves in appropriate receptacle
- Never re-use disposable gloves even if you think that they are clean

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REMOVING GLOVES

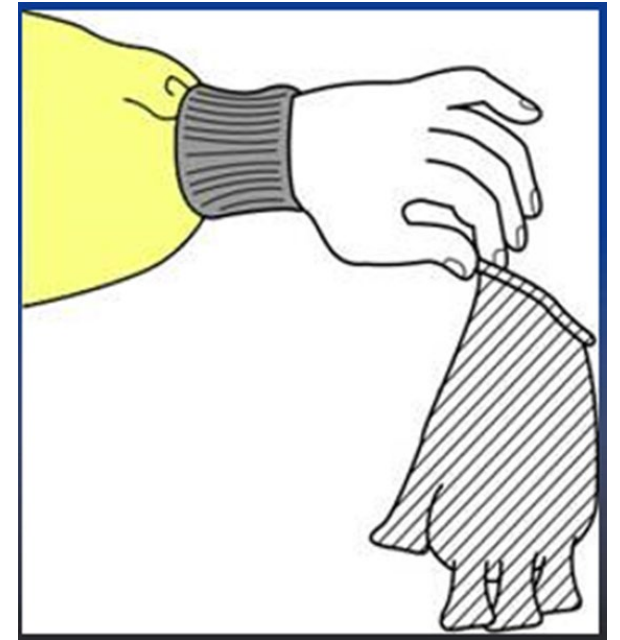
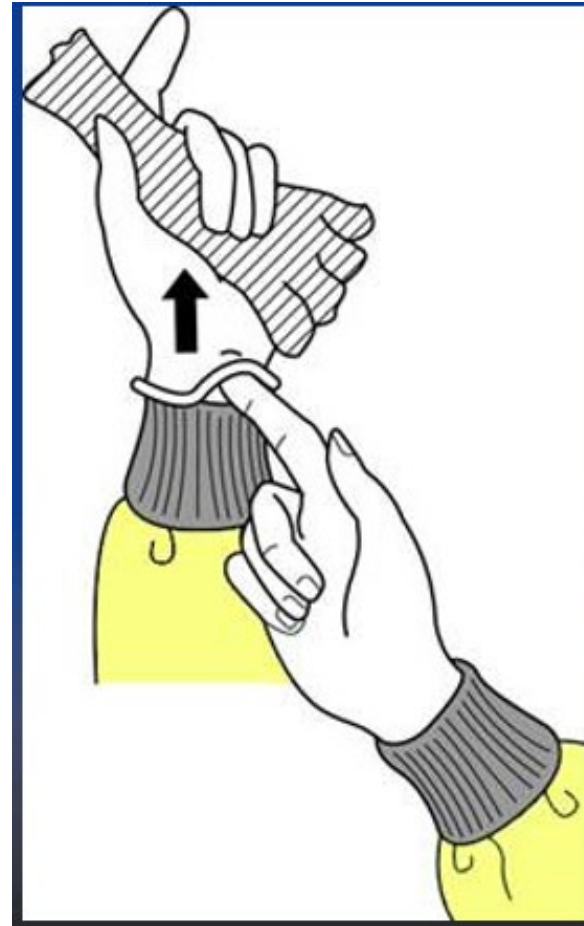
- Grasp outside edge near wrist
- Peel away from hand, turning glove inside-out
- Hold in opposite gloved hand



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REMOVING GLOVES, CONT.

- Slide ungloved finger under the wrist of the remaining glove
- Peel off from inside, creating a bag for both gloves.
- Discard gloves





HOW TO SAFETY USE PPE

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LAB COAT/OTHER WASHABLE COVERING



Protects clothing



Remove immediately
if becomes soiled



HAND HYGIENE



Perform hand hygiene immediately after removing PPE

If hands become visibly contaminated during PPE removal, wash hands before continuing to remove PPE



Wash hands with soap and water or use an alcohol-based hand sanitizer with at least 60% alcohol

HOW TO WASH CLOTH FACE COVERING

Washing machine

- You can include your face covering with your regular laundry.
- Use regular laundry detergent and the warmest appropriate water setting for the cloth used to make the face covering.

Washing by hand

- Prepare a bleach solution by mixing:
 - 5 tablespoons (1/3rd cup) household bleach per gallon of room temperature water or
 - 4 teaspoons household bleach per quart of room temperature water
- Check the label to see if your bleach is intended for disinfection. Some bleach products, such as those designed for safe use on colored clothing, may not be suitable for disinfection. Ensure the bleach product is not past its expiration date. Never mix household bleach with ammonia or any other cleanser.
- Soak the face covering in the bleach solution for 5 minutes.
- Rinse thoroughly with cool or room temperature water.

Completely Dry cloth face covering after washing

- Use dryer on highest setting 6/16/2020
- Air dry. If possible place in direct sunlight.

HOW TO WASH LAB COAT/ SCRUB JACKET

Washing

- You can include your lab coat/scrub jacket with your regular laundry.
- Use regular laundry detergent and the warmest appropriate water setting for the cloth used to make the coat.

Dry **Completely** after washing

- Use dryer on highest setting

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VIDEO
DEMONSTRATION
PPE REMOVAL;



<https://www.dhs.wisconsin.gov/covid-19/ppe.htm>

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REFERENCES

- Guidance for Child Care Programs that Remain Open <https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/guidance-for-childcare.html#ScreenChildren>
- <https://www.cdc.gov/coronavirus/2019-ncov/community/schools-childcare/>
- Cloth face coverings: <https://www.cdc.gov/coronavirus/2019-ncov/prevent-getting-sick/about-face-coverings.html>
- <https://www.cdc.gov/coronavirus/2019-ncov/hcp/elastomeric-respirators-strategy/>
- [CDC/NIOSH - Understanding the Difference Between Surgical Masks and N95 Respirators](#)

QUESTIONS?

CONTACT:

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CONTACT YOUR DISTRICT OCCUPATIONAL SAFETY AND HEALTH INSPECTOR:
[PUBLIC SECTOR DISTRICT SAFETY INSPECTORS](#)

YOUR SCHOOL SAFETY COORDINATOR