

Personal Protective Equipment

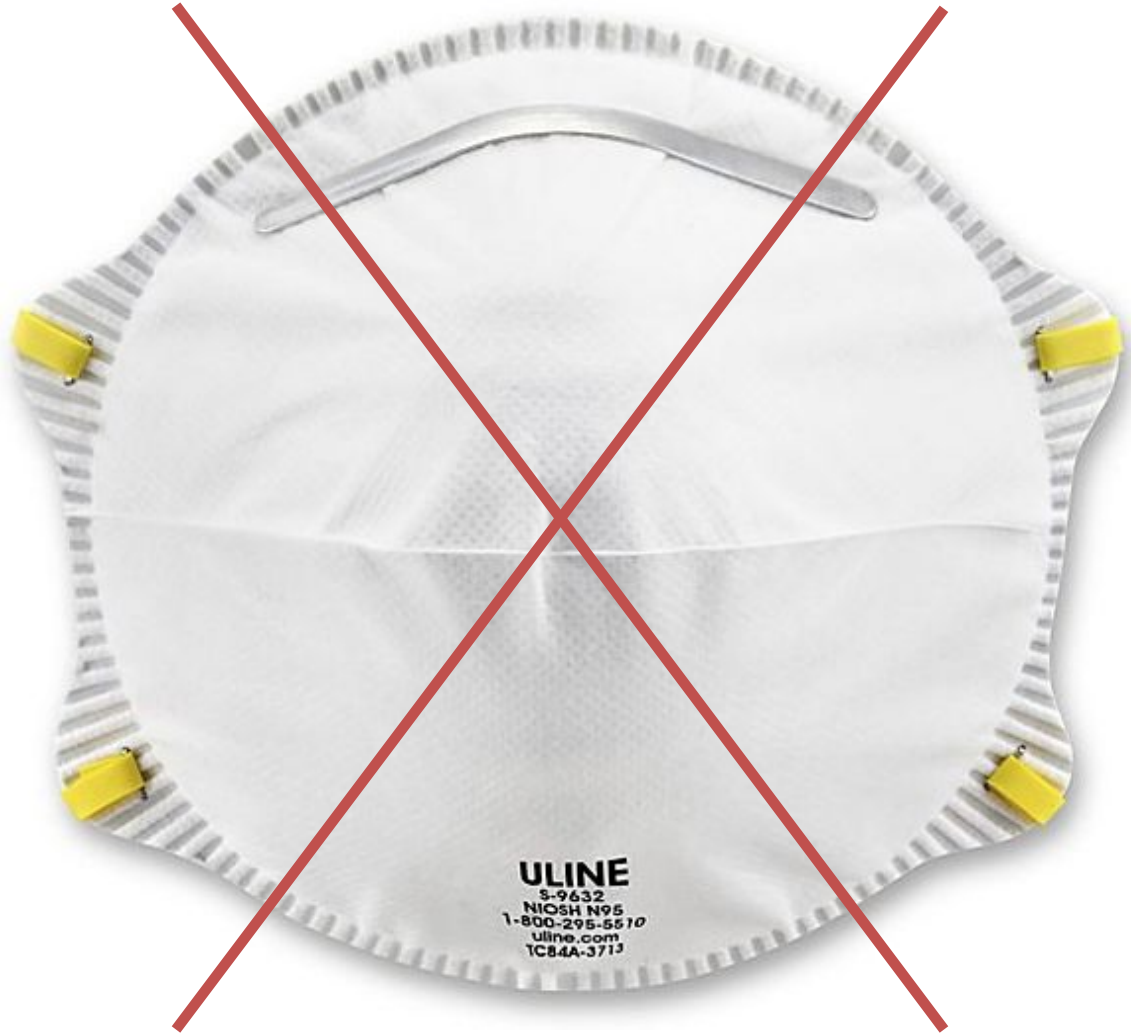
Jeff Belzil SMV

PPE to have:

- Half mask respirator, full mask respirator, or traditional gas mask
- Impact resistant eye protection
- Impact resistant non ballistic head protection
- Medical kit

- **Extra protection:**
- Flak jacket or body armor
- Kevlar helmet

These do **not** work against tear gas:



These provide **some** protection against tear gas:

N95 or approved Kn95 masks without valves



Half mask respirators, full mask respirators and traditional gas masks are considered the **gold** standard in protection.

Gas Masks should be:

- **NBC**, or Nuclear, Biological and chemical or **CBRN**
- They need to **NATO-standard** with **40-mm filter cartridges**

Nuclear: Nuclear fission or fusion from accident or attack.
protection from particles of radioactive fallout.

Biological: Viruses, bacteria, fungi or other micro-organisms.

Examples include: anthrax (bacterial agent); Ebola; Avian flu and other pandemics; volcanic ash.

Chemical: Toxic chemicals such as mustard gas, Sarin gas, tear gas (riot control), blister gas, blood gas, or choking gas (nerve agent).

Radiological: Illness caused by exposure to harmful radioactive materials.

Chinese, Israeli or Russian masks and respirators are not Recommended

Full-face Respirators

Cost:

- ~\$225 USD

Cons:

- Not great for taking photos

Mestel SGE 150 Gas Mask



Full-face Respirators

Cost:

- ~\$250 USD

Pro:

- A better option for visual journalists

Mestel SGE 400/3 and 400/3 BB



Full-face Respirators

Cost:

- ~\$275 USD

Pro:

- A great option for visual journalists
- Cannister can be worn on the left or the right

Mira Safety CM-6M Tactical Gas
Mask



Full-face Respirators

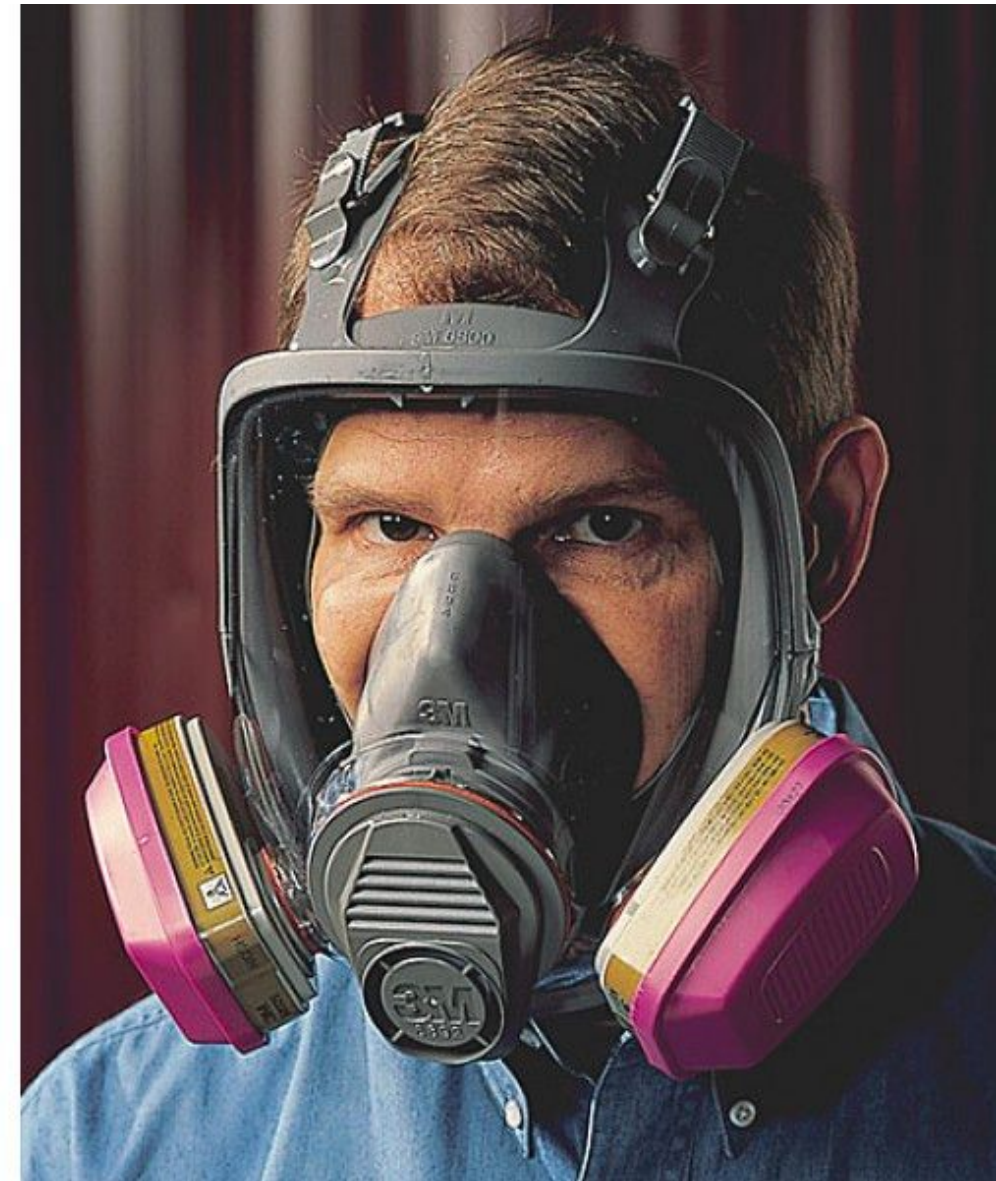
Cost:

- ~\$160 USD

Goes with:

- The 3M organic vapor (OV)/P100 combination filter

3 M Low Maintenance Full Face
Respirator, 6000 Series



Full-face Respirators

Cost:

- ~\$140 USD

Goes with:

- The 3M™ organic vapor (OV)/P100 combination

The Honeywell North® Full Face Respirator, 7600 5400, 5500, 7600, and 7700 series



Half Mask Respirators

Any air-purifying half-mask respirator with an organic vapor (OV) cartridge(s) in combination with an N95, R95, P95, N99, R99, P99, N100, R100 or P100 filters will also work against 2-Chloroacetophenone, Chloromethyl phenyl ketone, Mace®, Phenacyl chloride, Phenyl chloromethyl ketone and tear gas.

But

It needs to be paired with a sealed goggles.

Half Mask Respirator

Examples

3M6200 Half
Facepiece Mask



Organic Vapor (OV)
Cartridge



N95, R95, P95, N99, R99,
P99, N100, R100 or P100
Filter



Half Mask Respirator

Examples

3M6200 Half
Facepiece
Mask



3M 60924 P100,
Organic Vapor
Ammonia
Cartridge Filter

Half Mask Respirator

Examples

HONEYWELL NORTH Half Mask
Respirator 7700 or 5500



Honeywell NORTH 7583P Acid Gas
and Organic Vapor & P100



Head Protection:

What you could use:

- BMX helmet
- Skateboard Helmet
- Climbing helmets
- Multi-Sport Helmet

What to look for:

- Ventilation: holes are better
- Lightweight
- ASTM & CPSC Certified



Bike Helmets or construction hard hats are NOT recommended.

Eye Protection:

What to look for:

Impact Resistant Rating Civilian Standard

- ANSIZ87+, or ANSI 787.1+

Sealed, non vented or indirectly vented goggles

- Rubber coating is best; open foam coating will allow gas to penetrate the goggles
- Sealed “non-vented goggles are rare but are the best against fogging.

Anti Fog

Easily Adjustable fit

**Swimming,
construction, ski or
wildfire goggles are
NOT recommended.**

Eye Protection:

If your impact-resistant goggles are indirectly vented, you can use a hot glue gun to seal them.



Eye Protection



SolidWork Safety Goggles with universal fit, Safety Glasses with coated lenses, Scratch resistant

Brand: SolidWork

★★★★☆ 2,003 ratings

Was: \$29.99

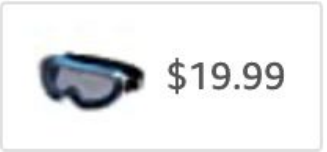
Price: \$19.99 ✓prime FREE One-Day & FREE Returns

You Save: \$10.00 (33%)

W. Best price **W.+**

Get \$150 off instantly: Pay \$0.00 upon approval for the Amazon Prime Rewards Visa Card.

Color: Clear Lens



Eye Protection



Bolle Safety Super Blast Goggle with Clear Lens, Black/Blue, Clear, Model:40296

Brand: [Bolle Safety](#)

★★★★★ [32 ratings](#) | [3 answered questions](#)

List Price: ~~\$33.99~~

Price: **\$24.94** ✓prime & FREE Returns

You Save: **\$9.05 (27%)**

W. Best price [W.+](#)

Get \$150 off instantly: Pay \$0.00 upon approval for the Amazon Prime Rewards Visa Card.

Available at a lower price from [other sellers](#), potentially without free Prime shipping.

Brand	Bolle Safety
Color	Black/Blue
Lens Material	Polycarbonate
Item Dimensions LxWxH	7.4 x 3.8 x 3.8 inches
Lens Color	Clear

Eye Protection

3M GoggleGear 500 Series GG501SGAF, Clear Scotchgard Anti-fog lens

Brand: 3M

★★★★☆ 345 ratings | 17 answered questions

Amazon's Choice for "3m goggles"



Price: \$19.90 ✓prime Today by 6PM & FREE Returns



W. Best price **W.+**

Thank you for being a Prime member. Get a \$150 Gift Card: Pay \$0.00 upon approval for the Amazon Prime Rewards Visa Card. No annual fee.

Brand	3M
Color	Red Frame/Clear Lens
Item Dimensions LxWxH	2.71 x 2.17 x 3.94 inches
Lens Color	Clear

Soft Body Armor

- ~~Level II-A (9mm; .40 S&W) (NOT RECOMMENDED)~~
- ~~Level II (9mm; .357 Magnum). (NOT RECOMMENDED)~~
- Level III-A (High velocity 9mm; .44 Magnum).

NIJ Standard				0101.06
LEVEL	Caliber	9mm		NIJ Standard 0101.06 Velocities
Level IIA	9mm 124 gr. FMJ RN		40 S&W	1225 ft/s
	40 S&W			1155 ft/s
Level II	9mm 124 gr. FMJ RN		.357 Mag.	1305 ft/s
	.357 Magnum 158 gr. JSP			1430 ft/s
Level IIIA	.357 Sig 125 gr. FN		.44 Mag.	1470 ft/s
	.44 Magnum 240 gr. JHP			1430 ft/s





Hard Plate/ Ceramic Body

Armor Level III AR15, AK 47,

- Level III+ High velocity threat
- Level IV (Armor piercing rifle)



Level III	7.62mm NATO 148 gr. (.308 Caliber) FMJ		2780 ft/s
Level IV	30.06 166 gr. (.30 Caliber) M2AP Armor Piercing		2880 ft/s

Level IV (4) Ceramic Plates

Level IV It's the highest NIJ body armor plate level rating and is highly recommended if you are going to a warzone/conflict area because of the presence of larger caliber bullets and the threats of armor-piercing rounds.

Ballistic Helmets (Kevlar Helmets)

Offer good ballistic protection from fragmentation and most pistol caliber threats. (Level III-A)

- **PASGT/LWH**
- **ACH** (Advanced Combat Helmet)
- **ECH** (Enhanced Combat Helmet)
- **MICH** (Modular Integrated Communications helmet)

