

# COVID-19 Recommended PPE for WASH Activities

from [Rational use of PPE for COVID-19](#)  
from [WHO – WASH COVID-19 Technical brief](#)

ICRC – Water & Habitat Unit

Date: 24.03.2020

WASH activity	Production and treatment facilities		Health Care settings				Open settings
	Drinking Water station operations	Waste Water station operations	Toilets and handling Faeces	Emptying latrine, tanks, transporting excreta	Cleaning surfaces and environment	Medical Waste management	Environmental cleaning
Staff category	Operators, Technicians	Operators	Cleaners, Nurses	Environmental cleaners, Technicians		Environmental cleaners, Technicians	Environmental cleaners
Risk description	None	Handling, splashing, aerosol.	Droplet splatter, aerosol clouds while cleaning	Splashing	Surface contact	Puncture, surface contact, splashing.	Aerosol clouds while cleaning
<b>Personal Protection Equipment*</b>	PPE composition might change according to activity specific activity's risk assessment.						
	Never reuse disposable PPE Clean and disinfect reusable PPE between each use (CI 0.5 %) PPE should not be adjusted or touched during use			Never touch your face while wearing PPE Always remove safely to avoid self-contamination (from dirtiest to cleanest areas) Always practice hand-hygiene before and after wearing PPE			
Mask		--	2/shift disposable	2/shift disposable	2/shift disposable	2/shift disposable	2/shift disposable
Eye protection (goggle or face shield)		--	1/shift reusable	1/shift reusable	1/shift reusable	1/shift reusable	1/shift reusable
Gloves		--	5/shift disposable	5/shift disposable	5/shift disposable		
Heavy duty gloves		--				1/shift reusable	1/shift reusable
Long-sleeved gowns		--		1/shift disposable	1/shift disposable	1/shift disposable	
Protective Outwear		--	1/shift disposable			1/shift disposable	1/shift disposable
Apron (if gown not fluid resistant)		--				1/shift reusable	1/shift reusable
Boots		--	1/shift reusable	Close-toed shoes	1/shift reusable	1/shift reusable	1/shift reusable

\* Consumption rate are estimated on 6-8 hours shifts.

# COVID-19 PPE specification for WASH Activities

[Red Cross Standard Products Catalog](#)

PPE Item	Description	CODE	WHO recommended specifications
Mask	 Medical mask, good breathability, internal and external faces should be clearly identified	MMREMASKS1V MMREMASKSD1	EU MDD directive 93/42/EEC Category III, or equivalent, EN 14683 Type II, IR, IIR, ASTM F2100 minimum level 1 or equivalent;
Eye protection (goggle or face shield)	 Face shield: Made of clear plastic and provides good visibility to both the wearer and the patient. Goggles: Good seal with the skin of the face, flexible PVC frame to easily fit with all face contours with even pressure, enclose eyes and the surrounding areas, accommodate wearers with prescription glasses, clear plastic lens with fog and scratch resistant treatments, adjustable band to secure firmly so as not to become loose during clinical activity, indirect venting to avoid fogging. Adjustable band to attach firmly around the head and fit snugly against the forehead, fog resistant (preferable), completely cover the sides and length of the face, may be re-usable (made of robust material which can be cleaned and disinfected) or disposable.	APROGOOGPL	Face shield: EU PPE Regulation 2016/425. Goggles: EU PPE Regulation 2016/425, EN 166, ANSI/ISEA Z87.1, or equivalent EN 166, ANSI/ISEA Z87.1, or equivalent set of standards
Gloves	 Gloves, examination, nitrile, powder-free, non-sterile. Cuff length preferably reaching above the wrist (e.g. minimum 230mm total length). Sizes, S, M, L.	MMREGLOVENM (Medium size)	EU MDD directive 93/42/EEC Category III, EU PPE Regulation 2016/425 Category III, EN 455, EN 374, ANSI/ISEA 105, ASTM D6319, or equivalent set of standards
Heavy duty gloves	 Outer glove should have long cuffs, reaching well above the wrist, ideally to mid-forearm. Cuff length preferably reach mid-forearm (e.g. minimum 280mm total length). Sizes, S, M, L. Reusable.	HHYGGLOVKITM (Medium) HHYGGLOVKITL (Large)	Puncture resistant, FDA compliant
Long-sleeved gowns	 Single use, disposable, length mid-calf	MMREGOWNSDS (Small) MMREGOWNSDM (Medium) MMREGOWNSDL (Large)	EU PPE Regulation 2016/425 and EU MDD directive 93/42/EEC, FDA class I or II medical device, or equivalent, EN 13795 any performance level, or AAMI PB70 all levels acceptable, or equivalent
Protective Outwear	 OVERALL, disposable, splash resistant for Non-hazardous Aerosols (sprays), Non-hazardous Liquids, General Industrial Clean-up and Processing		
Apron (if gown not fluid resistant)	 Straight apron with bib, Fabric: 100% polyester with PVC coating, or 100% PVC, or 100% rubber, or other fluid resistant coated material. Waterproof, sewn strap for neck and back fastening. Minimum basis weight: 300g/m2 covering size: 70-90 cm (width) x 120-150cm (height). Reusable (provided appropriate arrangements for decontamination are in place).	MMREAPSUD15 (single-use) XLINAPSU120 (heavy-duty) XLINAPSU140 (heavy-duty)	Acceptable standards, EN ISO 13688, EN 14126-B and partial body protection (EN 13034 or EN 14605), EN 343 for water and breathability or equivalent
Boots	 Boots, waterproof, heavy duty, rubber, ribbed soles for extra traction, pair. Shoes, step-in clogs, pair, to protect the wearer from liquid contamination.	APROBOOTR06, 07, 08, 09, 10, 11 APROBOOTR36, 38, 40, 42, 44 XMEQSHOEC07, 08, 09, 10, 11	