OPERATIONAL HYGIENE HANDBOOK COVID-19





THIS HANDBOOK AIMS TO::

_Help reduce community transmission of SARS-COV-2 in the course of activities undertaken by SGIFR operational crews*; _Provide a short guide to best practices for preventing and mitigating the impacts of COVID-19;

_Contribute to equipment and facility maintenance procedures.



COVID-19

WHAT IS IT? COVID-19 is a viral respiratory disease highly transmissible from person to person through droplets. SYMPTOMS: Fever, cough, trouble breathing, headache and flu-like symptoms. Less frequently: sore throat, loss of smell, sneezing.

INCUBATION PERIOD: Symptoms take **between 1 and 14 days** to manifest, but a large percentage of the population doesn't show any symptoms at all (although

they can infect others).



_Self-monitor before leaving home. Stay home if you are sick or have flu-like symptoms, and call the SNS24 health helpline; _In all other situations, wash your hands (for approximately 20 seconds) and arms up to your elbows using soap and water. Do not use alcohol-based solution (70%):

_Where possible, ensure **adequate physical distancing** (at least 2 metres);

_Avoid touching your mouth, nose and eyes with your hands. If you feel the need to sneeze, sneeze into your elbow; _In all recommended situations, use personal protective equipment;

_Put on or take off PPE in a designated area (see CHECKLIST 1) with facilities available to wash and disinfect them. If you need to carry PPE, do so using a watertight bag:

_At the end of a shift, and if possible, take a shower and put on clean clothes;

operational personnel:

INDIVIDUAL PRECAUTIONS:





* RECOMMENDATIONS FOR THE ENTITIES THAT ARE PART OF THE INTEGRATED RURAL FIRE MANAGEMENT SYSTEM (SGIFR) REGARDING THE PREVENTION AND MITIGATION OF THE IMPACTS OF COVID-19 ON PREVENTION, SURVEILLANCE, SUPPRESSION AND POST-FIRE ACTIVITIES. _When you need to work in a crew (with two or more people) in confined spaces such as the Operational Command Post (OCP), you **must wear a face mask** and, to the extent possible, keep the recommended physical distance; _If you show symptoms suggestive of COVID-19 while at work, isolate yourself and **take all other preventive and response measures**, namely putting on a surgical face mask, calling the SN24 heath helpline, avoiding contact with co-workers and informing your superior.



_Follow the established internal procedures; _**Avoid formations**. If such is not possible, ensure physical distancing;

_Where possible, maintain a safe distance of 2 metres from co-workers;

_____Wear a face mask, from the moment you enter the facilities, and especially in common areas;

_Be sure to disinfect work tools when you finish using them.

_Make sure that you do not mix your gear and uniform with that of co-workers;

_Briefings should preferably be held **outdoors** and with as few people as possible.

In the event an OCP is activated, only gather the people who are strictly necessary. The outdoor area of the OCP must be physically cordoned off and access restricted;

_Hands must be wash and disinfected every 30 minutes;

_Meal times must be divided into several shifts at different times, observing the 2-metre distancing between each crew member;

_Crowds should be avoided in and outside of facilities;

_Whenever possible, **use remote communication devices** (e.g. radio, video conferencing, mobile phone) for meetings.

centres and facilities:

Barracks, Logistics Support Bases (LSB), Air Support Centre (ASC), Operational Coordination Centres, and other facilities. _Monitor temperatures at entrances and exits, establish capacity limits (stock replenishment, mechanics, electricians, etc.), and advise against or restrict the access of unauthorised persons; _If possible, create/implement a separate entry and exit corridor so that shift workers do not circulate in the same space;

_Conduct regular screening. If someone's temperature is higher than 38° C, activate the isolation protocol immediately;

_Clean and disinfect facilities, starting from the cleanest to the dirtiest area;

_All frequently touched surfaces (e.g., door handles, armrests, tables, switches, taps, computer keyboards, etc.), as well as public areas, must be **thoroughly cleaned in accordance with DGS Guideline 014/2020, several times a day**;

_Ensure regular disinfection of tools used for cleaning common areas (e.g. mops, brooms, rags); _When cleaning surfaces, **always protect your hands by wearing disposable waterproof gloves**. Wear a face mask and protective eyewear when using disinfectants in accordance with DGS Guideline 014/2020;

_Rubbish bags must be easily removable and leakproof, and removed when three-quarters full. Bins must be emptied and disinfected daily;

_Beds in quarters must be arranged in such a way as to ensure physical distancing, and reduce capacity;

_Abundant ventilation (natural or artificial) is highly recommended (never put AC in air recirculation mode);

_Customer service should preferably be provided by **telephone or via intercom**. When such is not possible, use acrylic partitions or face masks (in the absence of partitions);

_FOLLOW THE PROCEDURES IN CHECKLIST 4.

vehicles:

Combat, logistics, command post, sanitary, pre-hospital care and other vehicles.

_Clean and disinfect your hands before entering the vehicle;

_Equip vehicles with a hand sanitizer dispenser, gloves and face masks for regular use;

_Prepare **a back-up isolation kit** for suspected COVID-19 cases, with a bottle of hand sanitizer, two face masks, four pairs of gloves, two face shields or goggles, and two disposable gowns or suits;



_Disinfect vehicles daily, or whenever needed; _Air out/ventilate the cabin regularly; FOLLOW THE PROCEDURES IN CHECKLIST 5.



VEHICLE CLEANING PROCEDURE:



1_Always wear gloves and a face mask when using the products;

2_Remove all objects from inside the vehicle;

3_**Use water and detergent to clean all surfaces**, particularly those with dust or grease, and allow to dry for five minutes.

Porous surfaces should be allowed to dry for 10 minutes;

4_Apply disinfectant solutions **to a clean cloth and wipe down** the surfaces for about one minute, as indicated in the table below;

5_Let stand for about ten minutes and air out the vehicle's interior for about two minutes. The outside of the vehicle should be cleaned using a disinfectant spray or high-pressure washer:

6_Use a dry, clean cloth to remove any excess solution;

7_Throw away paper and used gloves;

8_Wash your hands after cleaning.

	WATER AND SOAP OR DETERGENT	ALCOHOL	BLEACH	HYDROGEN PEROXIDE
Levers, handles, buttons, and drawers	\checkmark	70%	0,5%	7% unixed
Upholstery, seat cushions, cabins	if they can dry	70%	0,5%	1% maximum or using fumigation
Screens, displays, mirrors and windows		70%	0,5%	\mathbf{x}
Computers, mobile phones, radios	and dry immediately	TO% isopropanol only	\mathbf{x}	\mathbf{x}
Keyboards, mouses, other plastics		70%	0,5%	\mathbf{x}
Seat belts		70%	0,5%	1% maximum
Exterior and equipment lockboxes		\mathbf{x}	1%	7% Winnaki

 Table 1: Cleaning and alternatives for disinfecting vehicles

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operations:

_Personnel that are part of **risk groups** defined by DGS (diabetes, hypertension, respiratory diseases, among other co-morbidities) should not be included in operational crews;

_Install mobile equipment for hand washing at various points of the Theatre of Operations (TO);

_Adapt rest and hygiene facilities to observe the recommended physical distancing, taking the size of the crew into account;

_Clean and disinfect resting and hygiene facilities regularly;

_Contact between crews working in separate operational areas should **be limited**;

_Provide conditions for the removal and decontamination of PPE from the natural environment at the end of operations, as indicated in CHECKLIST 1; _Radios should always be used by the same crew member during a shift and disinfected at the end of their shift;

_Shared tools/equipment must be **disinfected after each use**.



_Isolate a suspected case. The person in question must put on a surgical face mask;

_The person who will be taking care of the suspected case must put on a face mask and gloves, as indicated in CHECKLIST 2;

_Report the suspected case (SNS24 and Security Officer or Commander);

_Maintain ongoing operational activities (e.g. do not abandon a prescribed fire);

_Identify the people with whom the suspected case had direct contact;

_Consider generalised isolation of the crew, after the Health Authority has confirmed the risk;

_Activate the Contingency Plan (in facilities) or Mitigation Plan (onsite);

_Disinfect all equipment, gear, vehicles and surfaces.

annexes:



Wet your hands with warm water and use a mild soap (to cover all surfaces of your hands).



Rinse your hands with plenty of water to remove the soap.

HAND WASHING





(hill)

20 SEG





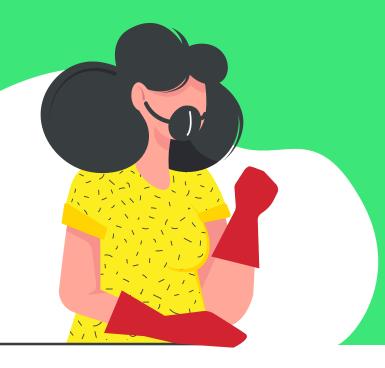
Thoroughly wash all parts of your hands and wrists for about 20 seconds. If you are in short sleeves, wash up to your elbows.



Let your hands air-dry naturally or use a disposable paper towel. Do not use air dryers.







PPE IN THE NATURAL

There are no special precautions when it comes to using Firefighting PPE in the natural environment. However, you must wash your hands with soap and water (or an ABHS) before putting on PPE and after taking them off.

PROCEDURE FOR REMOVING FIREFIGHTING PPE IN THE NATURAL ENVIRONMENT:

It is presumed that responders and operational personnel can completely remove their clothing (e.g., dressing room, sleeping area). Adjustments must be made for partial removal during operations, leaving the PPE to air out until the next use.

CHECKLIST 1: REMOVAL OF FIREFIGHTING PPE IN THE NATURAL ENVIRONMENT

No.	ACTION	CHECK
1	Prepare an area for removal of PPE with waterlight bags to store the equipment	\bigcirc
2	Remove work gloves	\bigcirc
3	Remove any equipment such as safety vests, belts, radios, flashlights	\bigcirc
4	Wash your hands with soap and water (or an ABHS)	\bigcirc
5	Remove your helmet and safety goggles in a single forward movement	0
6	Remove your turnout coat/uniform jacket by touching only the outside	\bigcirc
7	Remove your boots and pants by touching only the outside, and place your feet in a "clean" area	\bigcirc
8	HigWash your hands with soap and water (or ABHS)	\bigcirc
9	Remove your jersey by touching only the outside, and simultaneously remove the hood	\bigcirc
10	If you remove your underwear, do not place it with the PPE	\bigcirc
11	Take a shower after removing PPE, if such is not possible, wash your hands, wrists, forearms, neck, face and hair with soap and water	0
12	Store all PPE components inside waterlight bags so that they do not come into contact with other clothing or personal items	0
13	Clean all PPE components in accordance with the manufacturer's recommendations	\bigcirc





PPE FOR SUSPECTED COVID-19 CASES

> 38ºC

Another person must be present when putting on and taking off PPE, who must confirm that all steps are followed.



(see DGS Standard 007/2020 for more detailed information)

No.	ACTION	CHECK
1	Remove accessories and personal items	\bigcirc
2	Wash your hands with soap and water (or ABHS)	\bigcirc
3	Put on a surgical face mask and protective eyewear	\bigcirc
4	Put on a gown and boot covers, if available	\bigcirc
5	Use disposable, non-sterile gloves	\bigcirc
6	Put on a cap	0

CHECKLIST 3: PROCEDURE FOR TAKING OFF COVID-19 PPE

No.	ACTION	CHECK
1	Prepare an area for removal of PPE with a receptacle to discard PPE	\bigcirc
2	Disinfect gloves with 70% ethanol	\bigcirc
3	If you are wearing boot covers, remove them one by one and place your eet in a "clean" area	\bigcirc
4	Disinfect gloves with 70% ethanol	\bigcirc
5	Remove your gown, if applicable, by touching only the outside and ensuring it remains inside out, and also remove gloves	\bigcirc
6	Put on a fresh pair of gloves	\bigcirc
7	Remove face shield or goggles from back to front	\bigcirc
8	Disinfect gloves with 70% ethanol	\bigcirc
9	Remove your cap, if applicable, and your face mask in a single forward movement, by touching only the elastic bands	\bigcirc
10	Disinfect gloves with 70% ethanol	0
11	Remove gloves	0
12	Wash your hands with soap and water (or ABHS)	0



CHECKLIST 4: PROCEDURE FOR CLEANING FACILITIES

Instructions: To minimise COVID-19 transmission, clean all facilities twice a day. Always wear PPE - face mask, protective eyewear and gloves. Use water and detergent for cleaning, then treat the floor with a 1% bleach solution and objects with a 0.5% bleach solution.

	MORNING	AFTERNOON
Frequently touched surface: Doors Handrails Windows	\bigcirc	\bigcirc
Switches	\bigcirc	\bigcirc
Offices: Telephones Desks and chairs Computers, keyboards and mouses	\bigcirc	\bigcirc
Commons areas	\bigcirc	\bigcirc
Canteens and dining areas: Chairs Fridges, stoves and microwaves Drawers Cutlery and cups	\bigcirc	\bigcirc
Changing rooms and toilets: Taps Handles Showers Lockers Sanitary equipment	\bigcirc	\bigcirc
Rest areas: Bed linen Bedside tables Switches	\bigcirc	\bigcirc
Vacuum and clean the floor	\bigcirc	\bigcirc
Ventilate compartments	\bigcirc	\bigcirc

CHECKLIST 5: VEHICLE CLEANING PROCEDURE

Instructions: To minimise COVID-19 transmission, clean and disinfect vehicles after each use. Always wear PPE - face mask, protective eyewear and gloves. Use water and detergent for cleaning, and disinfect with the products listed in table 1.

	MORNING	AFTERNOON
Frequently touched surfaces: Armrest Steering wheel Levers/Handles Rear-view mirror Glove box	\bigcirc	\bigcirc
Switches: Control Buttons Siren/Strobe Lights/Rotating beacons Radios	\bigcirc	\bigcirc
Cabin: Windows Upholstery, carpets and headrests Discard all paper and accumulated waste Storage compartments	\bigcirc	\bigcirc
Exterior: Exterior surfaces Door handles Handrails, grips and steps Compartment doors Fill covers Water pumps	\bigcirc	\bigcirc
Equipment lockboxes and storage boxes: Equipment for use in operations carried on the roof Equipment used carried in lockboxes Exterior storage compartments	\bigcirc	\bigcirc

Important contact information:

INFORMATION:

_SNS24 healthcare helpline: 808 24 24 24 _Official COVID-19 information: PSYCHOSOCIAL SUPPORT FOR RESPONDERS: _SNS24 psychological support: 808 24 24 24, option 4

_INEM Psychological Support and Crisis Intervention Centre: Call 112, for psychological emergencies

_ANEPC Psychosocial Support Team:

This guide has been put together taking into account the guidelines of the Portuguese Directorate-General for Health and the AGIF operational recommendations for the prevention and mitigation of COVID-19.