Risk-informed decision-making guidelines for workplaces and businesses during the COVID-19 pandemic

Objective: Provide a framework for risk-informed decision making about public health actions for workplaces/businesses operating during the COVID-19 pandemic.

Audience(s): Employers and business owners can use this document to consider COVID-19 related risks associated with their workplace/business, as well as to identify and implement appropriate risk mitigation strategies, including decisions to close workplaces. Local Public Health Authorities (PHA) can use this tool to support decision-making about workplaces/businesses in their jurisdictions.

This document is not applicable to workplaces where health care is being provided to COVID-19 infected individuals. Employers of first responders and health care workers should ensure that the occupational health and safety and infection prevention and control practices within their workplace/context align with local PHA recommendations for the health sector.

At this time, many provinces and territories have mandated the closure of all workplaces with the exception of those providing essential services and goods. Employers and businesses should refer to their respective provincial or territorial website for the list of essential services.

This risk assessment tool is intended to support Canadian workplaces and businesses to reduce the risks of COVID-19 transmission in their settings. It is based on advice contained in the World Health Organization's guidance Footnote 1,

and in the US Centers for Disease Control and Prevention (CDC) guidance formation, and on <u>public health assumptions</u> that reflect the currently available scientific evidence and expert opinion. It is subject to change as new information on transmissibility and epidemiology becomes available.

Workplaces and businesses can contribute to the transmission of respiratory pathogens, such as the virus that causes COVID-19. It is important for these settings to implement appropriate public health measures to prevent and reduce the spread of COVID-19 among all those who may be present in the workplace (e.g. employees, contractors, customers/clients).

Workplaces/businesses can implement key measures to limit the spread of the virus in their settings. Workplaces/businesses are heterogeneous; therefore, the Public Health Agency of Canada recommends that employers andbusiness owners conduct a risk assessment to determine the most appropriate public health actions for a particular workplace/business during the COVID-19 pandemic. This involves considering the epidemiology of the disease, assessing characteristics of the workplace/business settings and its employees/clients, and assessing the weight (importance) of associated risks. Introduction of measures to respond to COVID-19 within the workplaces/businesses can be considered on a continuum from promoting public health messages, to enhancing communication to employees, contractors and customers/clients, to implementing risk mitigation strategies, to closing the workplace.

Epidemiology of COVID-19

Epidemiologic evidence suggests this virus transmits readily by respiratory droplets and contact. This suggests that transmission in a workplace/business setting could occur directly via close contact or indirectly via contaminated surfaces and/or objects (fomites). Transmission via contaminated surfaces poses a greater risk if employees/clients share workstations (e.g., communal computers, electronic devices).

Individuals who have been infected with the COVID-19 virus are able to transmit the virus to others early in their illness, including in the days before they develop symptoms (pre-symptomatic), and up to at least 10 days after they develop symptoms. Some infected individuals may have very mild symptoms, or no symptoms (asymptomatic), but are still able to transmit the virus to others, This means that some infected individuals will be able to infect others, but may not look or even feel ill themselves. The estimated incubation period for COVID-19 is 5-6 days on average, ranging from 1 to 14 days.

Epidemiologic evidence suggests that COVID-19 causes mild illness in most people (~80 %), with a smaller proportion of people developing more severe disease including pneumonia, and with some dying. People at higher risk of complications and severe disease include older adults and people with underlying chronic or immunocompromising medical conditions.

Risk mitigation strategies (including personal protective equipment (PPE))

Managing the risks of COVID-19 in the workplace requires multiple strategies that must be used in combination to be effective. Business employers/owners, employees and clients/customers all have important roles to play in taking steps to reduce the spread of COVID-19. Some businesses or workplaces may choose or be required to close, or to have employees work remotely if possible. If the workplace is continuing to operate, signs should be posted to clearly indicate that no one, not employers, nor employees, nor clients should enter the workplace if they are unwell, are isolating or in quarantine (self-isolating).

 All employees, including essential workers, should be instructed to stay at home if they are feeling unwell. If they start experiencing symptoms while at work, they should isolate themselves from others immediately, and notify their manager and go home as soon as possible, avoiding public transportation and taking measures to protect others around them.

Essential workplaces and businesses that continue to operate during the COVID-19 pandemic will be required to implement a range of recommended public health measures and environmental controls to minimize risk of disease transmission. Practicing frequent and thorough hand hygiene (washing hands for 20 seconds with soap and water, or using alcohol-based hand sanitizer), as well as not touching one's face, good respiratory etiquette, and physical distancing are the most effective ways to prevent infection.

Physical distancing (maintaining a 2 metre distance from others) is essential and effective in reducing infectious disease transmission.

Operators of workplaces should implement measures to ensure that physical distancing and/or barriers between individuals (e.g., employees, customers, clients) are maintained consistently. This could include use of physical barriers like a Plexiglas window or high walled cubicle, ensuring 2 metre separation between work stations, signage or markings on the floor, and/or dedicated staff providing directions.

Respiratory etiquette, coughing or sneezing into one's arm or a tissue, is an effective measure to prevent the spread of potentially infectious respiratory droplets and the contamination of surfaces by a COVID-19 infected person (including those who may not yet have symptoms).

When maintaining a physical distance of 2 metres between coworkers or customers/clients in the workplace is not consistently possible, consideration should be given to use of a non-medical mask or facial covering, (e.g., homemade cloth masks, dust masks, bandanas that cover the mouth and nose), that may also prevent an infected person's respiratory droplets from reaching other people or contaminating common surfaces and/or objects (fomites). If a worker is alone behind a physical barrier, a non-medical mask or

facial covering is not necessary. If the worker is behind a physical barrier with co-workers or needs to move out from behind the physical barrier (and a 2 metre distance is not possible), then a non-medical mask or facial covering should be considered. Wearing a non-medical mask or facial covering is intended to prevent spread of infection from the wearer, but has not been proven to protect the person wearing it from becoming infected. If the use of non-medical mask or facial covering is recommended in the workplace/business setting, workers should be instructed on their proper care and use.

In the context of this pandemic, medical masks or respirators must be conserved for health care workers and others providing direct care to COVID-19 patients. It is extremely important to not divert the supply of thisPPE away from where it is needed most.

(Consult guidance available at <u>Canada.ca/coronavirus</u> for additional recommendations)

Outside of the health care context, PPE should only be used on the advice of an organization's occupational health and safety department, based on a risk assessment that considers both the risk associated with a specific task/activity as well as the characteristics of the source of the infection (e.g. a sick person or a contaminated environment). The use of respirators (e.g. N-95 respirators), outside of healthcare settings or other industries where respirators are routinely used, is not recommended.

If workers (that are not health care providers) must perform tasks within 2 metres of people diagnosed with COVID-19, that have symptoms of COVID-19, or are in contact with their environment, they should consult their occupational health and safety department to discuss the need for additional PPE such as a medical mask, gloves, eye/face protection and gown (droplet precautions).

Training on the appropriate use of PPE and the sequence for putting it on (donning) and taking it off (doffing) should be provided, as all PPE must be

used correctly to prevent contamination; hand washing remains critical when using PPE.

Population	at Risk: Employees	/Contractors/Clier	nts	
Characteri stics	Risk consideration	Public health rationale	Weight	Risk mitigation strategies
Demograph ics of your workforce and clientele	Are employers/business owners aware that employees/clients are from demographic groups at greater risk of severe disease, such as older adults or people with underlying medical conditions?	should be given to protecting them from	High importa nce	 Communication about risk to staff/clients should be emphasized; Encourage the use of individual measures such as frequent hand hygiene, physica distancing, respiratory etiquette and staying home when ill; If physical distancing canno be consistently maintained, employees and clients should consider wearing a non-medical

Population at Risk: Employees	Contractors/Clier	nts		
	Workplaces/busi nesses cannot assume they know the health status of their employees.		•	mask or facial covering, (e.g., homemade cloth masks, dust masks, bandanas). Provide options to the medically at risk to reduce social contacts at work, such as teleworking arrangements, if possible.
greater risk of	are generally	Medium importa nce	•	Consideration should be given to modifying service delivery (e.g., reducing number of clients using services at the same time, providing services outdoors) and promoting use of individual measures such as frequent hand

Population at Risk: Employees/	Contractors/Clier	nts		
	with others in a			hygiono physical
				hygiene, physical
	way that is			distancing,
	likely to			respiratory
	increase			etiquette.
	transmission.		•	Bear in mind
	Preventing			that it may not
	transmission			be possible to
	from these			mitigate risk for
	populations			certain groups of
	indirectly			individuals (e.g.
	protects the			children are
	larger population			unlikely to
	and may reduce			comply with
	demand on the			physical
	health care			distancing, hand
	system.			or respiratory
				hygiene or
				wearing a non-
				medical mask or
				facial covering).
			•	Consider need
				for increased
				frequency of
				cleaning
				especially of high
				touch services.
Are your employees	Returning	High	•	Plan for
- at greater risk of	international	importa		absenteeism or
being infected due	travelers and	nce		alternative

Population at Risk: Employees	/Contractors/Client	ts		
to recent international travel or attendance at an identified risk setting (e.g., conference where cases were known to be present)?			•	working arrangements (i.e., teleworking); For returning travellers, who are asymptomatic, and deemed essential workers considerations should be given to more stringent self-monitoring and other measures to reduce exposure and transmission to others (e.g., the use of a non-medical mask or facial covering when physical distancing cannot be maintained). Employers should conduct a risk assessment (consider involving the

Population	at Risk: Employees/	Contractors/Clier	nts		
					local PHA) taking into account local epidemiology, response goal, critical infrastructure resources and potential positive and negative impacts of recommendations
	increased rate of COVID-19 infection?	be higher in the workplace if there is ongoing local community transmission.	High importa nce	•	Consider involving the local PHA in decision-making about
	population at increased risk of severe disease if COVID-19	Businesses that interact with communities with a high number of elderly residents, higher rates of chronic disease	Medium importa nce		workplace/busine ss operations or closure.

Population at Risk: Employee	s/Contractors/Clients	
Environment: Workplace/Settin	or challenges accessing health care services may want to reduce their activities to limit exposures within the community.	
What kind of service does your workplace/business provide (e.g., customer service, food service, manufacturing, hoteling, rideshare, etc.)?	The risk of being exposed and/or acquiring the infection is greater if employees/client s interact more closely (i.e., close contact) with one another or with numerous clients	 Adjust workplace policies and procedures to reduce physical contact, such as teleworking arrangements, flexible hours, staggering start times, use of email and teleconferencing; Modify infrastructure to enhance physical distancing by 2 metres; Where possible, consider going cashless. If this is not possible, encourage hand hygiene after

Population at Risk: Employees/	Contractors/Clier	nts		
	The more numerous or the longer the exposures, the higher the risk for transmission. Given that COVID-19 can survive on surfaces and objects for hours to days, work and/or services that are transactional in nature may represent a higher risk of exposure (e.g., exchange of money or items).		•	exchange of money or items; Reinforce the importance of frequent hand hygiene, physical distancing, and respiratory etiquette Reinforce safe food handling practices.
Will employees/clients be participating in activities that promote transmission?	include, but are	High importa nce	•	Reinforce the importance of frequent hand hygiene and respiratory etiquette Reinforce

Population at Risk: Employees	Contractors/Clier	nts	
			 Avoid potlucks, buffets, where serving utensils, plates, trays and other objects may be handled by multiple people.
Does your workplace/business provide essential services?	Essential workers are considered critical to preserving life, health and basic societal functioning. This includes, but is not limited to, first responders, health care workers, critical infrastructure workers, hydro and natural gas, and workers who are essential to supply society	High importa nce	 Consider the societal impacts of altering, reducing or stopping services; Review and revise, as needed, your business continuity plans to prioritize key functions in the event of high workplace absenteeism.

Population	at Risk: Employees	/Contractors/Clier	nts		
Population	at Risk: Employees	by critical goods such as food and medicines. A workplace/busine ss located in a public space with high traffic is at an increased risk of being exposed/infected with COVID-19 due to the number of people coming in and out of the setting (i.e., high number of		•	Workplaces/busin esses that operate in public spaces and/or urban centres can consider modifying service delivery/hours or closing to reduce spread; Encourage employees/clients to take public transit at non- peak times or to use a personal
	Is the majority of	potential introductions of the virus). Work/services offered outdoors (i.e. higher	Medium	•	vehicle if possible to limit contact with others. Reinforce the importance of
	the work/service carried out indoors, outdoors or both?	ventilation) are likely to be lower risk than those held indoors (e.g.,	importa nce		frequent hand hygiene, respiratory etiquette, and physical

Population at Risk: Employees	/Contractors/Clier	nts		
	construction			distancing.
	work vs.		•	If physical
	administrative			distancing cannot
	work in an			be consistently
	office).			maintained,
	A			employees and
	workplace/busine			clients should
	ss located in a			consider wearing
	more densely			a non-medical
	populated area			mask or facial
	(e.g.,			covering, (e.g.,
ls your	metropolitan),			homemade cloth
workplace/business	may have			masks, dust
in a geographically	higher	Medium		masks,
remote area or in	exposure/infectio	importa		bandanas).
close proximity to a	n risks.	nce		Employers/busine
densely populated	Proximity of a			sses with more
area?	workplace/busine			than one location
	ss to a densely			are encouraged
	population area			to adopt a
	could result in a			tailored approach
	more rapid			on workplace
	dissemination of			measures based
	disease.			on local context.
How do	Workplaces/busi			
clients/customers/co	nesses	Medium		
ntractors primarily	accessible	importa		
access your	primarily via	nce		
workplace/business	public transit			

Population	at Risk: Employees	/Contractors/Clier	nts	
	(e.g., public transit, personal car)?	may be at an increased risk of transmission due contact of potentially contaminated surfaces/objects and proximity with other individuals (especially at peak times) for a long period of time.		
Planning	Does your workplace/business have a pandemic preparedness plan? Does your workplace/business have a robust business continuity	adapt their operations/activiti es based on recommended public health advice. Workplaces/busi nesses with robust business	High importa nce High importa nce	 Review and revise, as needed, your business continuity plans to prioritize key functions in the even of high workplace absenteeism; Update emergency contact information of

Population at Risk: Employees	/Contractors/Clier	its	
issues like critical operations, prioritization of work/services, surge capacity planning, cross-training of employees.	to be able to adapt their operations/activiti es based on recommended public health advice.		ctors.
How will staff absenteeism impact your operations?	a number of days or weeks.	High importa nce	 Prepare to institute flexible workplace and leave policies for employees who are sick, in self- isolation, or caring for family members.

Population at Risk: Employees/	Contractors/Clier	nts	
	spikes from increases in sick employees, those who stay home to care for sick family members, and those who must stay home to watch their children if dismissed from school.		
Do you have a risk communication plan to share information with your employees, contractors and clients?	Workplaces and businesses with an existing risk communication plan are more likely to be able to ease employees'/client s' fear, anxiety,	Medium importa nce	 Develop a risk communication plan to ensure effective and efficient communication with employees, contractors and clients.

Population at Risk: Employee	s/Contractors/Clien	its	
	Good communications channels are key to reinforce public health measures in the workplaces such as hand hygiene, respiratory etiquette, and staying home when ill in order to limit transmission. It may also help with compliance with public health advice.		
Does your workplace/business employ a small or large number of employees?	the likelihood of one of them	Medium importa nce	 Consider staggering work hours to reduce crowding and close contact; Consider retaining employees with critical functions only to reduce

Population at Risk: Employees/Contractors/Clie	ents
of people may also create greater likelihood of crowding (e.g., boardroom, gym class). However, larger workforces may be better able to manage absenteeism.	workplace Reinforce the

Population	at Risk: Employees	/Contractors/Clier	nts		
Policies and practices	Can your workplace/business support flexible workplace policies (i.e., teleworking arrangements, staggered hours)?	Workplaces and business with flexible workplace policies will help reduce transmission amongst staff by reducing close contact between employees and/or clients.	High importa nce	s p s is v q is c fr tr s n n	Consider relaxing ick leave olicies that upport mployees in solation at home then ill, or in uarantine (self- solation) due to xposure to a ase or return om international ravel (e.g., uspending the eed for medical otes to return o work).
Mental health	Does your workplace/business offer mental health support to your employees?	Employees/client s may experience increased stress associated with COVID-19, that can bring up historical traumas, trauma of past emergency events, or	Low importa nce	m b s • P h	ailor plans for ninimizing stress ased on the mployee/client ituation; Provide mental ealth support ervices.

Population	at Risk: Employees	/Contractors/Clier	nts		
		exacerbate ongoing personal or community stressors. Mental health support may contribute to a more present and productive			
Infrastructu	Can your workplace/business infrastructure be easily altered/modified to implement public health and infection prevention and control measures (e.g., additional hand cleaning stations, spatial separation of 2- metre between workstations)?	workforce. Respiratory droplets tend to fall within 2 metres of their source, so maintaining a 2- metre distance from others is a precaution to prevent spread.	Medium importa nce	•	Reinforce the importance of frequent hand hygiene, respiratory etiquette, and physical distancing; Provide access to handwashing facilities and place hand sanitizing dispensers in prominent locations throughout the workplace/busine

Population	at Risk: Employees/	Contractors/Clier	nts	
	points of entrance and exit that force people to be in close proximity and/or pass through high-touch areas (e.g. turnstiles,	lines at bottlenecks can put employees/client s at increased risk of exposure to respiratory	importa nce	maintained, employees and clients should consider wearing a non-medical mask or facial covering, (e.g.,
	fingerprint entry, doors and elevators)?	droplets. High- touch surfaces can also be contaminated and increase the risk of transmission. Use <u>approved</u> <u>hard surface</u> <u>disinfectants</u> .		homemade cloth masks, dust masks, bandanas).Enhal ce your environmental cleaning procedures and protocols with a special attention to high-touch surfaces and object.
Environmen tal cleaning	business have existing environmental cleaning procedures and protocols? Can they be enhanced	transmission of		Enhance your environmental cleaning procedures and protocols with a special attention to high-touch surfaces and objects (e.g.,

Population at Risk: Employees/	Contractors/Clier	nts	
		I	
health advice?	people		phones, elevator
	becoming		buttons,
	infected through		computers,
	self-inoculation		desks, lunch
	after touching		tables, kitchens,
	contaminated		washrooms, cash
	surfaces and/or		registers, seating
	objects		areas, surface
	(fomites). The		counters,
	virus that		customer service
	causes COVID-		counters, bars,
	19 has the		restaurant
	potential to		tables/menus).
	survive in the		
	environment for		
	up to several		
	days. Cleaning,		
	particularly of		
	frequently		
	touched		
	surfaces and		
	objects		
	(fomites), can		
	kill the virus,		
	making it no		
	longer possible		
	to infect people.		
Will high-touch	The virus that	Medium	
surfaces be cleaned	causes COVID-	importa	
and disinfected	19 may live on	nce	

Population at Risk: Employees	Contractors/Clier	its	
frequently?	surfaces for a		
	few hours or up		
	to a few days.		
	High-touch		
	surfaces can be		
	<u>contaminated</u>		
	and increase		
	<u>the risk of</u>		
	transmission.		
	Use approved		
	hard surface		
	disinfectants.		
	The frequency		
	(i.e., one		
	contact versus		
	multiple		
	contacts) and		
	duration (i.e.,		
	transient contact		
	versus		
	prolonged		
	contact) of		
	exposure to		
	high-touch		
	surfaces and		
	objects could		
	potentially		
	increase the risk		
	of		

	contamination. Although		•	Plan for rapid
Do your employees have access to Occupational Health and Safety services on site? How will symptomatic individuals in the workplace/business setting be handled? How will contacts be handled?	infected with COVID-19 in the workplace/busine ss, occupational health and safety professionals may be able to quickly and safely identify and isolate symptomatic individuals in	importa	•	isolation of a symptomatic employee; Identify an area where employees/clients can be isolated if they become ill at the workplace; Ensure that health care professionals onsite are using appropriate PPE and infection prevention and control (IPC) measures, as per usual procedure.
Occupational Health and Safety office assessed risk associated with employee	whose duties require them to interact face to face with the public may be	importa nce	•	A risk assessment that considers both the risk associated with a specific task/activity as
	Do your employees have access to Decupational Health and Safety services on site? How will symptomatic individuals in the vorkplace/business setting be handled? How will contacts be handled? Has the Decupational Health and Safety office assessed risk associated with employee	infected with COVID-19 in the workplace/business on site? How will symptomatic ndividuals in the workplace/business setting be handled? How will contacts be handled? How will contacts be handled? Has the Dccupational Health and Safety office assessed risk associated with employee	Do your employees have access to Decupational Health and Safety services on site? How will symptomatic ndividuals in the vorkplace/business setting be handled? How will contacts be handled?infected with COVID-19 in the workplace/busines safety professionals may be able to quickly and safely identify and isolate symptomatic individuals in the workplace/business asfely identify and isolate symptomatic individuals in the workplace.Medium importa nceHas the Decupational Health and Safety office assessed risk associated withEmployees require them to face with theHigh importa	Do your employees have access to Docupational Health and Safety services on site? How will symptomatic ndividuals in the vorkplace/business setting be handled? How will contacts be handled?infected with COVID-19 in the workplace/business may be able to quickly and safely identify and isolate symptomatic individuals in the workplace.Medium importa nceHas the Doccupational Health and Safety office assessed riskEmployees require them to interact face to public may be•

Population at Risk: Emplo	oyees/Contractors/Clients	
Population at Risk: Emplo	mba ba • Er • Fr • to • or • m • to • or • m	asks, andanas). mployees nould be minded not to uch their faces the non- edical ask/face overing while sing it.
	ar ca m ta di cu ha	workers (that re not health are providers) ust perform sks within 2 etres of people agnosed with OVID-19, that ave symptoms
	th er sh th th th th de di fo	COVID-19, or eir nvironment, nould consult eir occupational ealth and safety epartment to scuss the need r additional PE such as

 medical mask, gloves, eye/face protection and gown (droplet precautions). If PPE is recommended, it must be selected based on the results of a risk assessment and used correctly; training on its use including putting it on (donning) and taking it off (doffing) should be provided. Gloves are recommended when workers will be in direct contact with an ill person, or a contaminated object or environment.

Population at Risk: Employees/Contractors/C	lients
	increases risk of
	infection due to
	improper
	handling of
	potentially
	contaminated
	gloves and
	equipment. If
	they must be
	worn because
	the staff may
	come in contact
	with
	contaminated
	material they
	must be applied
	correctly (link to
	instructions in
	Case and
	Contact
	management
	guidance: Public
	health
	management of
	cases and
	contacts
	associated with
	novel coronavirus
	disease 2019

ulation	at Risk: Employees	/Contractors/Clier	nts	
				<u>(COVID-19)</u> .
	Has the occupational health and safety office assessed the risk of employees interacting directly with spaces occupied by the general public?	by the general	importa nce	 Mitigation as above
aveling	Does your workplace/business conduct frequent domestic/internationa I travel?		importa	 Actively monitor travel advisories and provide information about the risk of trave Cancel all non- essential travel outside of Canada; Assess the nee for business travel based on the risks and benefits, and consider

Population at Risk: Employees/C	ontractors/Clients	
fro TI na ou pl ui ai tra tra w in ex qu al be co co ca	annot work om home etc. ne evolving ature of the utbreak makes anning travel npredictable, nd international avel comes ith the risk of creased kposure, being uarantined broad, or ecoming a ontact of a ase during ane travel.	alternative approaches such as virtually attending meetings; Plan for absenteeism or alternative working arrangements (i.e., teleworking) if international travellers are unable to return to the workplace as per PHA advice.