

# Hazard Identification & Risk Assessment (HIRA) Summary

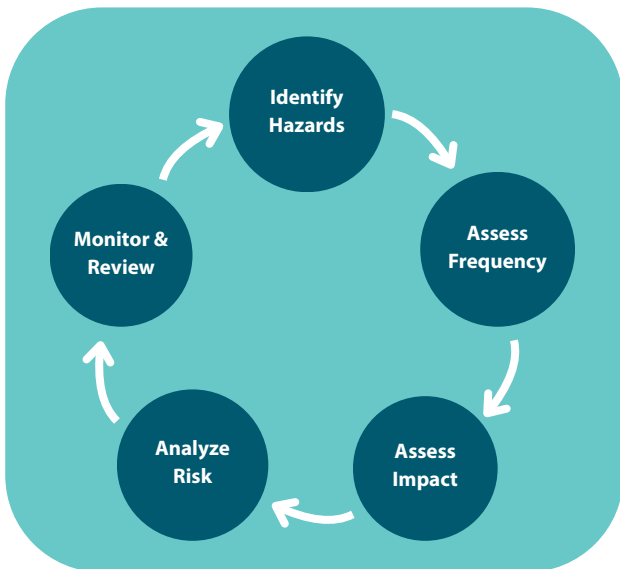
## What is a HIRA?

An assessment used to understand and identify potential health hazards in Windsor and Essex County, evaluate the risk that they pose, and implement preparedness and mitigation measures to reduce or prevent the impacts on our community.

## What is a Hazard?

Any event, substance, or action with the potential to cause harm, injury, or illness.  
Hazards can be environmental (extreme weather), biological (communicable diseases), or man-made (hazardous material incident).

## What are the steps in a HIRA?



$$\text{RISK} = \text{FREQUENCY} \times \text{IMPACT}$$



### Population Health Impacts\*

Fatalities, Injury/Illness, Evacuation, Psychosocial



### Organizational Impacts

Support Systems, Critical Infrastructure, Reputation

*\*Weighted 2x higher to prioritize PH impacts*

Hazard	Risk Category	Planned Action
Pandemic	<b>HIGH</b>	Develop Pandemic/Infectious Disease Response Plan
Natural Disaster		Work closely with Municipal Partners to ensure well defined roles in response
Communicable Disease Outbreak		Develop Pandemic/Infectious Disease Response Plan
Energy Supply Emergency	<b>MODERATELY HIGH</b>	Work closely with Municipal Partners to ensure well defined roles in response
Extreme Weather: Heat/Cold		Review and update Extreme Temperature Response Plan annually
Food-Borne Illness		Develop Hazard Specific Response Plans based on most likely to occur illnesses
Critical Staffing Disruption		Review and update COOP annually
Cyberattack		Review and update Incident Response Plan annually
Hazardous Material Incident		Work closely with Municipal Partners to ensure well defined roles in response
Drinking Water Emergency		Work closely with Municipal Partners to ensure well defined roles in response
Drug Toxicity/Mass Overdose	Work closely with Health System Partners in developing Opioid Response Plan	
ZVBD Disease Outbreak	<b>MODERATE</b>	Develop Hazard Specific Response Plans based on most likely to occur diseases
Air Quality Emergency		Work closely with Municipal Partners to ensure well defined roles in response
International Border Emergency		Work closely with Municipal Partners to ensure well defined roles in response
Nuclear Facility Emergency		Work closely with Municipal Partners to ensure well defined roles in response
Mass Gathering		Work closely with Municipal Partners to ensure well defined roles in response
Terrorism/War	Work closely with Municipal Partners to ensure well defined roles in response	