

Hazard and Vulnerability Analysis Review

Instructions

Evaluate potential for event and response among the following categories using the hazard specific scale. Assume each event incident occurs at the worst possible time (e.g. during peak patient loads)

Issues to consider for **probability** include, but are not limited to:

1. Known risk
2. Historical data
3. Manufacturer/vendor statistics

Issues to consider for **human impact** include, but are not limited to:

1. Potential for staff death or injury
2. Potential for patient death or injury

Issues to consider for **property impact** include, but not limited to:

1. Cost to replace
2. Cost to set up temporary replacement
3. Cost to repair
4. Time to recover

Issues to consider for **business impact** include, but are not limited to:

1. Business interruption
2. Employees unable to report to work
3. Customers unable to reach facility
4. Company in violation of contractual agreements
5. Imposition of fines and penalties or legal costs
6. Interruption of critical supplies
7. Interruption of product distribution
8. Reputation and public image
9. Financial impact/burden

Issues to consider for **preparedness** include, but are not limited to:

1. Status of current plans
2. Frequency of drills
3. Training status
4. Insurance
5. Availability of alternate sources for critical supplies/services

Issues to consider for **internal resources** include, but are not limited to:

1. Types of supplies on hand/will they meet need?
2. Volume of supplies on hand/will they meet need?
3. Staff availability
4. Coordination with MOB's

5. Availability of back-up systems
6. Internal resources ability to withstand disaster / survivability

Issues to consider for **external resources** include, but are not limited to:

1. Types of agreements with community agencies/drills?
2. Coordination with local and state agencies
3. Coordination with proximal health care facilities
4. Coordination with treatment specific facilities.
5. Community resources

Complete all worksheets including Natural, Technological, Human and Hazmat.

Multiply the ratings for each event in the area of probability, risk, and preparedness. The total values, in descending order, will represent the events most in need of organization focus and resources for emergency planning. Determine a value below which no action is necessary. Acceptance of risk is at the discretion of the organization.

HAZARD VULNERABILITY ANALYSIS-REQUIREMENT

Instructions

Evaluate every potential event in each of the three categories of probability, risk, and preparedness. Add additional events as necessary.

Issues to consider for probability include, but are not limited to:

1. Known risk
2. Historical data
3. Manufacturer/vendor statistics

Issues to consider for risk include, but are not limited to:

1. Threat to life and/or health
2. Disruption of services
3. Damage/failure possibilities
4. Loss of community trust
5. Financial impact
6. Legal issues

Issues to consider for preparedness include, but are not limited to:

1. Status of current plans
2. Training status
3. Insurance
4. Availability of backup systems
5. Community resources

Multiply the ratings for each event in the area of probability, risk, and preparedness. The total values, in descending order, will represent the events most in need of organization focus and resources for emergency planning. Determine a value below which no action is necessary. Acceptance of risk is at the discretion of the organization.

Hazard Vulnerability Analysis / Naturally Occurring Events 2009

EVENT	PROBABILITY	RISK			PREPAREDNESS			RISK
		HUMAN RISK	PROPERTY RISK	BUSINESS RISK	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	Likelihood this will occur	Possibility of death and injury	Physical losses and damages	Interruption of services	Preplanning	Time, effectiveness, resources	Community/ Mutual Aid staff and supplies	Relative threat*
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	Threshold (24)
Hurricane								
Tornado								
Severe Thunderstorm								
Snow fall								
Blizzard								
Ice Storm								
Earthquake								
Tidal Wave								
Temperature Extremes								
Drought								
Flood, External								
Wild Fire								
Landslide								
Volcano								
Epidemic								
Average Score								

* **RELATIVE THREAT IS DETERMINED BY MULTIPLYING PROBABILITY x RISK x PREPAREDNESS**

Hazard Vulnerability Analysis / Events Involving Hazardous Materials 2009

EVENT	PROBABILITY	RISK			PREPAREDNESS			RISK
		HUMAN RISK	PROPERTY RISK	BUSINESS RISK	PREPAREDNESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	Likelihood this will occur	Possibility of death and injury	Physical losses and damages	Interruption of services	Preplanning	Time, effectiveness, resources	Community/ Mutual Aid staff and supplies	Relative threat*
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	Threshold (24)
Mass Casualty Hazmat Incident (>=5 victims)								
Small Casualty Hazmat Incident (< 5 victims)								
Hazmat Exposure, External (Haz mat response to community)								
Chemical Exposure, (external)								
Small-Medium Sized Internal Spill								
Large Internal Spill								
Terrorism (chemical)								
Radiological Exposure (Internal)								
Radiological Exposure (External)								
Terrorism (radiological)								
Average Score								

* RELATIVE THREAT IS DETERMINED BY MULTIPLYING PROBABILITY x total RISK x total PREPAREDNESS

Hazard Vulnerability Analysis / Human Related Events 2009

EVENT	PROBABILITY	RISK			PREPAREDNESS			RISK
		HUMAN RISK	PROPERTY RISK	BUSINESS RISK	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	Likelihood this will occur	Possibility of death and injury	Physical losses and damages	Interruption of services	Preplanning	Time, effectiveness, resources	Community/ Mutual Aid staff and supplies	Relative threat*
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	Threshold (24)
Mass Casualty Incident (trauma)								
Mass Casualty Incident (medical/infectious)								
Terrorism (biological)								
VIP Situation								
Patient Abduction								
Hostage Situation								
Civil Disturbance								
Labor Action								
Forensic Admission								
Bomb Threat								
Workplace Violence								
Average Score								

* **RELATIVE THREAT IS DETERMINED BY MULTIPLYING PROBABILITY x total RISK x total PREPAREDNESS.**

Hazard Vulnerability Analysis / Technological Occurring Events 2009

EVENT	PROBABILITY	RISK			PREPAREDNESS			RISK
		HUMAN RISK	PROPERTY RISK	BUSINESS RISK	PREPARED-NESS	INTERNAL RESPONSE	EXTERNAL RESPONSE	
	Likelihood this will occur	Possibility of death and injury	Physical losses and damages	Interruption of services	Preplanning	Time, effectiveness, resources	Community/ Mutual Aid staff and supplies	Relative threat*
SCORE	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = Low 2 = Moderate 3 = High	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	0 = N/A 1 = High 2 = Moderate 3 = Low or none	Threshold (24)
Electrical Failure								
Generator Failure								
Transportation Failure								
Fuel Shortage								
Natural Gas Failure								
Water Failure								
Sewer Failure								
Steam Failure								
Fire Alarm Failure								
Communications Failure								
Medical Gas Failure								
Medical Vacuum Failure								
HVAC Failure								
Information Systems Failure								
Fire, Internal								
Flood, Internal								
Supply Shortage								
Structural Damage								
Elevator Failure								
Average Score								

* **RELATIVE THREAT IS DETERMINED BY MULTIPLY PROBABILITY x total RISK x total PREPAREDNESS**

Disaster Critique

1. Date: _____ Time: _____
2. Department/Unit: _____
3. Did employees respond appropriately to the initial disaster plan initiation announcement?
YES _____ NO _____
If 'NO', explain: _____

4. Were employees prepared to handle disaster patients and other emergencies as they occurred?
YES _____ NO _____
If 'NO', explain: _____

5. What worked well? _____

6. What would you change? _____

7. Was your department/unit adequately staffed?
YES _____ NO _____
If 'NO', explain: _____

8. Was this a helpful experience for your department/unit?
Yes _____ NO _____
If 'NO', explain: _____

9. Any comments or suggestions you or your department/unit would like to make?

10. In the event of a real disaster how many staff would have been called in for your department/unit?
Number of staff: _____

IMMEDIATELY FOLLOWING A DISASTER or DRILL, please complete and route to the Safety Committee Chair.

Thank You.