

CLASS DISCUSSION

✓ **What would be an emergency or disaster to your business?**

Don't think every disaster for your business has to be a huge national catastrophe

RISK ASSESSMENT DEFINITION

Risk assessment is a process to identify potential hazards and analyze what could happen if a hazard occurs.

RISK ASSESSMENT SURVEY

What are the risk levels of various disasters/emergencies to your business?

What are your most likely disasters?

RISK ASSESSMENT: BENEFITS

- Guide Management decisions regarding resource use**
- Helps to write BCP that meets most likely hazard**
- Increases awareness of owners and staff**
- Assists in preparing appropriate exercises/tests**
- Makes responding to emergencies easier, effective**
- Funding possibilities**

RISK ASSESSMENT MODEL

Quantify and Document

Probability & Severity of Specific Hazards

Technological

Human

Natural

Terrorism

| DAVIS THREAT EVENT/ HAZARD | PROBABILITY | SEVERITY = MAGNITUDE of IMPACTS | | | | | | SEVERITY IMPACTS | RELATIVE RISK | |
|---|---|-------------------------------------|------------|----------------------------------|------------|--|------------|---------------------------------|--------------------------------------|---------------------------------|
| | | HUMAN IMPACT | | FACILITIES IMPACT | | INSTITUTIONAL IMPACT | | | | |
| | <i>Relative likelihood this will occur</i> | <i>Potential deaths or injuries</i> | | <i>Physical damage and costs</i> | | <i>Interruption research & teaching Impact reputation/ image</i> | | <i>Overall Impact (Average)</i> | <i>Probability x Impact Severity</i> | |
| Natural Hazards Technological Terrorism Human | 1 = Not occur Doubtful Possible 5 = Inevitable | 2 = 3 = 4 = Probable | Question 1 | Question 2 | Question 1 | Question 2 | Question 1 | Question 2 | 1 = Lowest Highest 5 = | 1 = Lowest Highest 25 = |
| Animal/Crop Eco-terrorism | | | | | | | | | #DIV/0! | #DIV/0! |
| Workplace Violence | | | | | | | | | #DIV/0! | #DIV/0! |
| Lab Building Fire | | | | | | | | | #DIV/0! | #DIV/0! |
| Sports/Public Event Disturbance | | | | | | | | | #DIV/0! | #DIV/0! |
| Active Shooter | | | | | | | | | #DIV/0! | #DIV/0! |
| Residential Building Fire | | | | | | | | | #DIV/0! | #DIV/0! |
| Civil Disturbance | | | | | | | | | #DIV/0! | #DIV/0! |
| Wildland Fire | | | | | | | | | #DIV/0! | #DIV/0! |
| High Winds | | | | | | | | | #DIV/0! | #DIV/0! |
| Truck Bomb | | | | | | | | | #DIV/0! | #DIV/0! |
| Flood | | | | | | | | | #DIV/0! | #DIV/0! |
| Power Failure | | | | | | | | | #DIV/0! | #DIV/0! |
| Intentional Biological Agent Release | | | | | | | | | #DIV/0! | #DIV/0! |
| Accidental Hazmat Release - Kemper | | | | | | | | | #DIV/0! | #DIV/0! |
| Mail/Package Bomb | | | | | | | | | #DIV/0! | #DIV/0! |
| Public Health Emergency | | | | | | | | | #DIV/0! | #DIV/0! |
| Catastrophic Earthquake | | | | | | | | | #DIV/0! | #DIV/0! |
| IT Infrastructure Disruption | | | | | | | | | #DIV/0! | #DIV/0! |
| Intentional Radiological Material Release | | | | | | | | | #DIV/0! | #DIV/0! |
| Theft of 'Select Agent' | | | | | | | | | #DIV/0! | #DIV/0! |
| Telecommunications System Failure | | | | | | | | | #DIV/0! | #DIV/0! |
| Water Supply Disruption | | | | | | | | | #DIV/0! | #DIV/0! |
| Landslide - Mudslide | | | | | | | | | #DIV/0! | #DIV/0! |
| Coastal Tsunami | | | | | | | | | #DIV/0! | #DIV/0! |
| AVERAGE SCORE | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! | #DIV/0! |

| Risk and Vulnerability Assessment Model | | | | | | | | | |
|--|---|---------------------------------|-----|--|-----|---|-----|---|------------------------------|
| THREAT EVENT | PROBABILITY | SEVERITY = MAGNITUDE of IMPACTS | | | | | | SEVERITY | RELATIVE RISK |
| | | HUMAN IMPACT | | FACILITIES IMPACT | | BUSINESS REPUTATION IMPACT | | | |
| | Relative likelihood this will occur | Q1 Potential death-/- Q2 injury | | Q1 Physical damages -/-Q2 Inventory losses | | Q1 Loss of cash flow -/- Q2 closed 3 or more days | | Relative Severity (Overall Impact) | (Probability times severity) |
| SCORE | 1 = N/A 2 = Doubtful 3 = Possible 4 = Probable 5 = Inevitable | Q1 | Q2 | Q 1 | Q 2 | Q 1 | Q 2 | 1 = minimal 2 = minor 3 = moderate 4 = significant 5 = severe | |
| Tornado | 1.5 | 3.8 | 4 | 4 | 5 | 3 | 4 | 3.97 | 5.95 |
| Workplace Violence | 2.5 | 3.5 | 4.3 | 1.4 | 1.5 | 2.5 | 4 | 2.87 | 7.17 |
| Drought | 4.8 | 1 | 1 | 4 | 4 | 4.5 | 4.5 | 3.166666667 | 15.2 |
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