Disaster Preparedness

General Fire and Life Safety Tips

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Public Education

• Disaster Preparedness
  – Earthquake
  – Flood

• Business Disaster Preparedness
  – General Tips and considerations
Disasters

• Predictable
  – Tornado
  – Hurricane
  – Hazmat
  – Flood

• Unpredictable
  – Earthquakes
  – Hazmat
  – Floods
Disaster Preparedness

• How to prepare for predictable disasters
  – ID Stakeholders
  – Develop a Plan
    • Evacuate
    • Shelter in place
  – Prepare Supplies
Disaster Preparedness

• How to prepare for unpredictable disasters
  – ID Stakeholders
  – Develop a Plan
    • Evacuate
    • Shelter in place
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Disaster Preparedness

- Predictable
  - ID Stakeholders
  - Develop a Plan
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- Unpredictable
  - ID Stakeholders
  - Develop a Plan
    - Evacuate
    - Shelter in place
  - Prepare Supplies
Earthquake Preparedness

www.boredpanda.com/italy-earthquake-before-after/
Advanced Preparation

• Be proactive
  – Identify potential hazards (transportation, facilities)
  – Prevent what we can (codes, inspections)
  – Establish earthquake policies
    • Immediate actions
    • Windshield surveys
  – Develop a coordinated plan
    • Identify stakeholders (local agencies, MA)
    • Conduct drills to identify gaps in the plan
Advanced Preparation

• Be proactive
  – Identify potential hazards (low areas, facilities)
  – Prevent what we can (waterways, inspections)
  – Establish flood policies
    • Immediate actions
    • Seek higher ground
    • Assist with evacuation
  – Develop a coordinated plan
    • Identify stakeholders (local agencies, MA)
    • Conduct drills to identify gaps in the plan
So What’s the Plan?

• Based on the scenario
  – Early warnings (how much time do we have?)
  – Recon Advancing water (how much/where/when)
  – Evacuate (when, where, how to get there)
  – Where and when to establish short-term shelters

• Communication
  – Notify the public
  – Provide instructions
So What’s the Plan?

• Evacuate
  – Expedite the movement of threatened population
    • Those with own transportation
    • Those without own transportation
    • Visitors
    • Specific needs population
    • Confined/institutionalized
    • Students at school (over 100 schools locally)
    • Hospitals (critical patients?)
So What’s the Plan?

• Establish short-term shelters
  – Based on location and scenario (how many, where)
  – Shelters for those with animals
  – Logistical needs
    • Food, water
    • Facilities
    • First aid/medical
So What’s the Plan?

• Department/Agency Needs
  – Fuel
  – Communications
  – Equipment
  – EOC, DOC, MCV
  – Utilities (phones, electricity, sewage)
  – Mutual Aid- can we count on it? On our own?
Is Your Business Prepared?

- Identify potential hazards/disasters
  - Earthquake
  - Fire
  - Flood
  - Hazmat release
Is Your Business Prepared?

• Identify Potential Hazards
  – Internal
  – External
  – To Critical Assets

• Address Hazards
  – No Cost
  – Low Cost High Risk
Who Are Your Stakeholders?

– Employees
– Customers
– Suppliers
– Contractors
– Neighbors- Would your disaster affect people on the other side of the fence
Create a Plan

Communication is Key

– Emergency contact information
  • For the employee (after hours)
  • For employee family members

– Customers

– Suppliers

– Contractors
Create a Plan

**Data**

– How do you store your important information?
  * Paper
  * Electronic (is it backed up?)

– Where do you store your important information?
  * Local/within the business
  * Other location

– Is that location vulnerable?
  * Fire
  * Water
Create a Plan

Critical equipment- what is your fire engine?
– Is it at risk?
– What’s your back up plan?
– Can you function without it?
– If so, for how long
Life Safety

First Responder Team

– First Aid
– CPR
– Defibrillator
How Can You Prepare?

Have an emergency kit

– First aid kit
– Food and water
– Lighting
– AM FM radio
– Spare batteries
– Basic tools
– Tape
– Medication

www.parentmap.com/article/how-to-build-a-72-hour-disaster-or-emergency-family-survival-kit
Protecting Your Home

[Image: A flooded home with water up to the garage door.]

Protecting Your Home

• Make repairs from the top, down
• Check ground slope
• Monitor street flooding
• Use higher areas of your home
• Know your neighbors’ needs
• Don’t try to swim, wait for rescuers
• Be alert for animals seeking shelter
Post Flooding

• Listen to the radio
• Contact your insurance company
• Inspect building before entering
• Keep power off until inspected
• Don’t drink water
Away From Home

- Don’t drive through flooded areas
- Abandon stalled vehicles
- Stay away from downed power lines
- Don’t walk through moving water
- Seek higher ground
Residential Structure Fires
Smoke Detectors

- Importance
- Location
- Testing
- Batteries
- Hearing impaired?
- Replacement
- Affordability

www.safety.com/p/smoke-alarm-detectors/
Carbon Monoxide Detectors

- Became law July, 2011
  - Homes with attached garage
  - Fireplace or gas heater or appliance
  - Outside of sleeping areas
  - On each floor

- Signs and Symptoms
  - Headache
  - Dizziness
  - Weakness
  - Upset stomach
  - Vomiting
  - Chest pain
  - Confusion
EDITH

Exit
Drills
In
The
Home

www.tucsonaz.gov/fire/announcement/home-fire-safety
Cooking Hazards

• #1 cause of fires
• #1 cause of residential fires resulting in injuries
• Handles
• Boil, broil, grill, or fry
• When you leave...
• Keep kids out of the kitchen to keep them safe

Photo by Karrey Britt, wellcommons.com/users/photos/2012/nov/20/245161/
Home Heating

- 2\textsuperscript{nd} leading cause of home fires
- Inspect fireplace/chimney
- Clearance
- Built-in safety
- When you leave...

www.survivopedia.com/heat-home-electricity/

www.fryeelectricinc.com/2012/11/space-heater-safety-safe-electric-blanket-use/
Fire Extinguishers

- Multi-purpose
- Where to store
- How to use (PASS)
  - Pull the pin
  - Aim
  - Squeeze
  - Sweep

www.thisoldhouse.com/ideas/how-to-choose-and-use-fire-extinguishers
Matches and Lighters

- Tools
- Kids are curious
- Parents are gatekeepers
- Juvenile Fire Setters Program
  - Curious child
  - Known history
Candle Safety

• Sturdy base
• Location
• Pets and Children
• Blow them out
• Never near home oxygen

www.pinterest.com/karielou59/candlelight/
klce.com/many-candles-adults-birthday-cake/
Urban Interface Fires

Create Defensible Space

- Initial 30 feet (sm. trees/shrubs)
- An additional 70 feet
- Lawn furniture, toys, fences
- Roofing
- Rain gutters
- Attic vents

www.bendfirehistory.org/pages/the-skeleton-fire
Smoking

• If you must...
  – Smoke outside
  – Deep sturdy ashtrays
  – Put them out all the way
  – Only when alert
  – Never in bed
  – Never around medical Oxygen


Pool Safety

- If you can’t swim...learn
- Inflatable toys
- Have life-saving equipment
- Remove toys when done
- Fencing and gates
- Call 911 for pool-related Emergencies
- Learn CPR and post
- If you can’t find a child...

www.pinterest.com/swimways/water-pool-safety/