Be Safe

- Shoes, gloves x2 (body substance isolation and work gloves), helmet, goggles, dust/N95 mask.
- In hazardous environment work in a team. Stay in constant contact with partner: touch, sight, sound.

Sizeup

Look: 360° inspection – look, listen, smell. If appropriate, turn off gas/water during sizeup.

Think: Is it safe? How bad? How bad can it get? Do we have the training and equipment?

Do: Plan, Take Action, Evaluate, Repeat.

Damage?	Looks Like?	Do What?
Light	Superficial damage, broken windows, fallen	Locate, triage, and remove victims
	plaster/drywall, major damage is to contents of	to treatment area. Patient
	building	assessment can be done on-site.
Moderate	Visible minor structural damage; decorative	Minimize # of rescuers in building;
	building elements damaged or fallen; many	minimize time inside. Quickly and
	visible cracks in plaster/drywall; building still	safely remove all living victims.
	attached to foundation	
Heavy	Partial or total collapse of walls and/or ceilings;	Do Not Enter. Warn people to stay
	obvious structural instability; tilting; off	away.
	foundation; heavy smoke or fire; hazardous	
	materials inside; rising or moving water	

Fire Suppression – consider only in lightly or moderately damaged structures

- Quick escape? Right extinguisher? No other hazards (e.g. falling debris)? All YES, then GO.
- Two in together, in physical contact. One looks only at the fire; one looks everywhere else.

P -pull Pin	T-test extinguisher	A -aim	S -squeeze	S -sweep

Search and Triage

Keep track of who is inside and what is found:



Single slash means search operations in progress. Use at main entry and separate wing of large building. Info area () includes team ID and time/date of entry.



Crossing slash is drawn when search is complete (all team members out). After exiting and drawing the 2nd slash, add:

TOP QUADRANT – time/date search team left the structure
RIGHT QUADRANT – hazards and any action taken to address them

BOTTOM QUADRANT – number of live and dead victims still inside. ["0" = no victims]



When search team has to leave *without completing the search* (e.g. aftershocks), a solid circle is drawn at the mid-point of the 1st slash. Add all info for all four quadrants. Indicate areas searched in a box below the 'X'

Search

In teams of two, use systematic search pattern. If extra resources, extra teams "leapfrog."

Triage

- Voice triage count and tag on way out. Everyone gets handed over to medical team.
- For all the rest: (1) check for responsiveness at approach; (2) check airway; (3) do blood sweep; (4) look for signs of shock.

Red – Airway, Bleeding, or Shock: Compromised airway, severe uncontrolled bleeding, unconscious, or signs of shock (rapid, shallow breathing; pale, cool, clammy skin; disoriented/very confused). Maintain airway, control bleeding, treat shock, evacuate ASAP.

Airway: Head tilt, chin lift; look, listen, feel. Pad under upper-back to maintain.

Bleeding: Apply direct pressure & elevate.

Shock: Keep lying down, keep warm, maintain airway.

Yellow – Not red & not walking: Conscious, oriented, even with significant fracture or other significant injury, but without signs of shock. Prevent shock; let them know "Someone will be back for you."

Green - Walking wounded: Bad injury to no apparent injury & walking & alert and oriented.

Black - Dead: No breathing (open airway at least twice), or obvious mortal wounds.

Search and Rescue Action Plan (Partial)								
Light Damage	Moderate Damage	Heavy Damage						
1. Secure building utilities as	1. Secure building utilities (gas,	1. Secure building						
needed.	electrical, water).	perimeter and warn						
2. Establish and coordinate	2. Gather information (victim locations)	untrained and well						
search/triage, rescue, and	before entry.	intentioned						
medical teams.	3. Establish control person at exit and	volunteers about						
3. Treatment areas can be in	entry points.	danger and entry into						
the lightly damaged building.	Establish and coordinate two- to	building.						
4. Primary Mission: Locate,	four-person rescue teams.	2. From the exterior of						
triage, stabilize, and	Primary Mission: Locate, stabilize,	the building, attempt						
prioritize removal of victims	and immediately evacuate victims to	to shut off gas (if it is						
to designated treatment	a safe area while minimizing the	possible and safe to						
area.	number of rescuers inside building.	do so).						
5. Continue evacuation process	6. Perform triage and other medical	3. From the exterior,						
until all victims have been	care in a safe area.	encourage survivors						
removed and accounted for.	7. Continue rescuing lightly trapped	to self-rescue.						
6. Reassess structural stability	victims until complete or no longer	4. Gather available						
and available resources for	safe.	information from						
heavy rescue problems.	8. Continue evaluating safety.	survivors or witnesses						
7. Document location of	9. Document location of heavily	for professional						
trapped and/or missing.	trapped or deceased victims.	rescue teams.						

Treatment ⊕ = Beyond CERT training. Consider when no professional medical care for >3 hours

Patient Assessment in addition to Head-to-Toe Examination

While patients are conscious, record **SAMPLE** history (as reported by patient): **S**-Symptoms; **A**-Allergies; **M**-Medications they are taking; **P**-Pertinent medical history; **L**-Last they ate and eliminated; **E**-Events.

Shock kills! Treat early

Signs: rapid, weak heart rate; rapid, shallow breathing; pale, cool, clammy skin.

Treatment: Keep victim lying down; keep victim warm and hydrated; identify cause (e.g. bleeding).

Wounds

Bleeding: Direct pressure & elevate. ⊕ Tourniquet is OK: 10 minutes max, loosen, re-tighten if needed.⊕

Prevent infection: clean it!:

- Soap and water around wound.
- Remove foreign matter; scrub abrasions if needed.
- Clean wound with only clean water.
- Dress & bandage. ⊕ pack gaping wounds bigger than ½" wide with damp gauze.⊕

⊕ Can remove impaled objects from cheek; from extremity for evacuation.⊕

Broken Bones and other Musculoskeletal Injuries

- Splint: rigid, padded. Immobilize joints above & below fractures. (Bones above & below joint injury)
- Monitor Circulation, Sensation, and Movement of fingers or toes beyond the splint
- ⊕ Apply gentle traction-in-line (pulling) to return limb to normal position before splinting. STOP if pain.⊕

Psychology

For victims: Get victims to safe place, away from disturbing sights (including dead), sounds, and smells. **Keys to communication**: Be direct. Be honest. Respectful physical contact.

For the team: Take breaks; do not sacrifice self-care; support each other; deep calming breaths.

Message to help anyone cope: "Take your next step forward. The sun will come up tomorrow."

ICS - Incident Command System for CERT Led Activities

- Incident Commander (IC) is also Operations *Chief*. Generally no other ICS Sections are needed. (For larger operations a Logistics Chief finds and assembles supplies.) Functional Group *Supervisors* are assigned for search, medical, cribbing, etc, as needed.
- IC is responsible for Incident Action Plan: (1) What do we want to do? (2) Who is responsible for doing it? (3) How do we communicate with each other? (4) What do we do if someone is injured?
- One person can manage up to 7 others; managing 5 is best. Add Units with Leaders as needed.

CERT Natural Disaster Quick Reference

What is it: The CERT Natural Disaster Quick Reference is a two-sided Quick Reference Card to the CERT protocols that you can print and laminate. It can be photocopied onto two-sided paper and laminated at any local copy-center.

Printing: If you prefer a smaller copy than prints by default, you can make the Adobe® Reader® print it smaller by clicking **Printer Properties** in the **Print** dialog and selecting a *smaller paper size*. Then select **Scale: Fit to paper** before printing.

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