

INTERACTIVE COURSE DISCUSSING

- Accident Causation
- ◆ Witness & Wreckage Documentation
- ◆ Scene Hazards
- ◆ Reporting & Investigation Insights
- ◆ NTSB and FAA Roles
- Media Relations
- ◆ Bell 407 Recovery Information

WHO CAN ATTEND

- ◆ Firefighters
- ◆ First Responders
- ◆ EMS Professionals
- **♦** Law Enforcement
- Search & Rescue Teams

PREREQUISITES

◆ Landing Zone Class

It is not required to have an LZ Class prior to attending, but it may help the attendee have a better understanding of causation. LifeNet Air offers LZ Classes for free to first responder organizations.

LENGTH OF CLASS

4 Hours

WHY ATTEND?

This class is divided into four parts designed to teach you how to respond if an aircraft goes down in your area.

Part 1

Learn who to call and how to manage and secure an aircraft accident scene.

Part 2

Discuss scenarios that highlight what can go wrong if an LZ is not properly setup and secured. Then switch gears and discuss real world examples of obstacles you might face recovering an aircraft (crowds, rooftops, terrain, etc...).

Part 3

Learn specifically how to recover a Bell 407 helicopter through videos and instruction from a Bell 407 pilot.

Part 4

If the aircraft is available, the final part of the class focuses on hands-on application of the materials learned.

HEMS RECOVERY CLASS NOTES

Extrication Hazards

*Injuries can occur through:

Lacerations Crushing Fire Explosion Asphyxiation

*Extrication Hazards

Know what you're cutting through Access through windows not recommended Designed to resist impact (bird strikes)

Onboard Hazards

*Batteries

Remove from the wreckage Don't merely disconnect them Sparks from a battery can ignite spilled fuel/ flammable materials

*Oxygen

Can create explosion hazards if leaking from impact Oxygen will cause combustible materials to burn more intensely

*Bloodborne Pathogens

*Sharps Containers

Composites and Fiberglass

*Glass or carbon fibers held together with epoxy-resin
Fibers can break into airborne dust/fibers inhaled into the lungs
Stay upwind when handling the materials
Burned composite structure may hold it's form but support no weight

*Use care walking through wreckage

Fracture can create shards capable of penetrating boots Loose fibers can penetrate and irritate skin

Notes:

Notes:

Notes:

HAZARDS OF SCENE LANDINGS

Approach Speed

Brownout or Whiteout

Wire Strike

Multiple Aircraft on Scene

Weather

*VFR vs. IFR Conditions Visual Flight Rules Instrument Flight Rules

*Helicopter Shopping

*Weather Related HEMS Accidents 1998-2008 NTSB Study 19% of All Accidents - Weather

ACCIDENT SCENE LOCATIONS

Sporting Events

- *Crowd Control
- *MCI and Triage

Rooftops

- *Structural Integrity of Roof?
- *Is the Building on Fire?
- *Evacuate People?
- *How to Get the Survivors Out?
- *Means of egress / access to helipads

Water

*Dive Team

Roadways

- *Traffic Control
- *Stabilize Hazmat
- *Prevent disturbance of accident scene

Airports

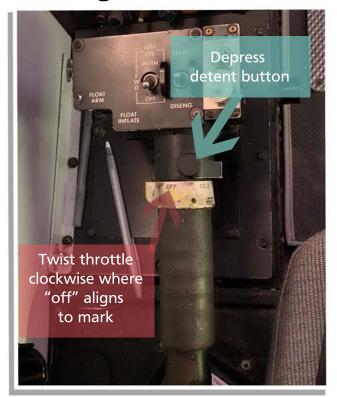
- *Scene Control
- *Other Flight Traffic
- *Access to Location

Rough Terrain

- *Snow or rain
- *Access to scene
- *Securing the wreckage

You should always refer to the pilot and crewmember instructions first. If occupants are unable to provide instructions, this guide can help you make the aircraft safer to perform rescue operations around.

Turning Off the Bell 407



If you can reach the collective, push down on the detent button. Then twist the throttle clockwise where "off" aligns to the mark.

If you cannot reach the collective, you can turn the fuel valve off by pushing the button (Bell 407) or switch (Bell 407 GX)







Stopping the Rotor Blades

Pull the rotor brake down.

IMPORTANT!!!! The rotor blades will not stop instantly. It can take up to 30 seconds for them to stop.

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Opening the Door: Medical Crew & Patient Area



Opening the Door: Cockpit Area



There are two door handles on the pilot side of the aircraft.

Lift up on the handle on either door to release the door to be opened.

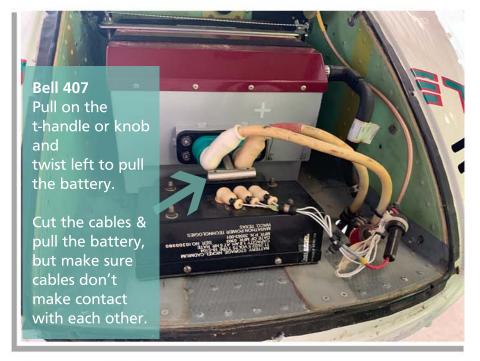
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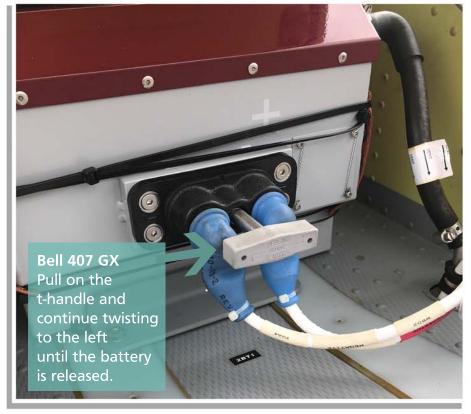
Accessing & Removing the Battery



Use a screwdriver to open the five fasteners on the front of the battery compartment.

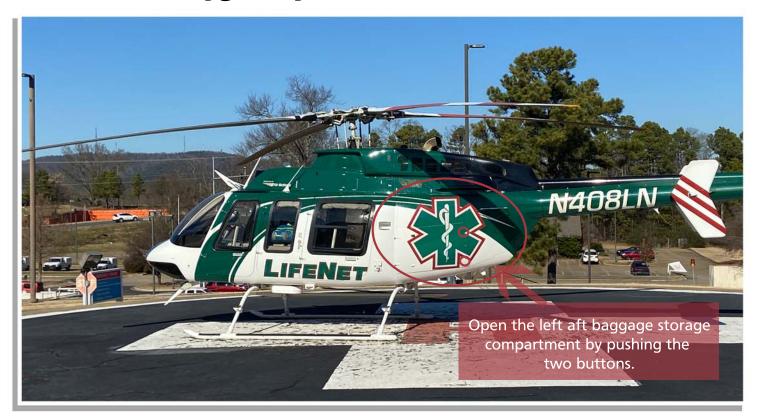
Once all are unlocked Grab onto two fasteners and lift the cover off of the compartment.





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Access the Oxygen System







The oxygen system contains 3000 liters of gaseous oxygen.