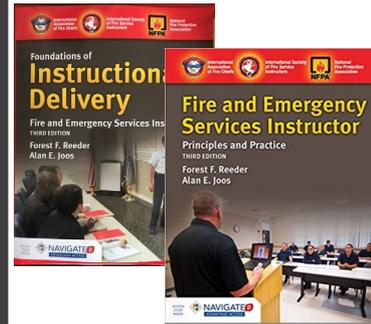


# The 5 Most Dangerous Places

*Priorities for the ISO*





## Forest Reeder, MPSA

*Fire Chief (ret.)  
Tinley Park (IL) FD  
46 Years of Service*



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[www.theincidentsafetyofficer.com](http://www.theincidentsafetyofficer.com)

# Fire Engineering®



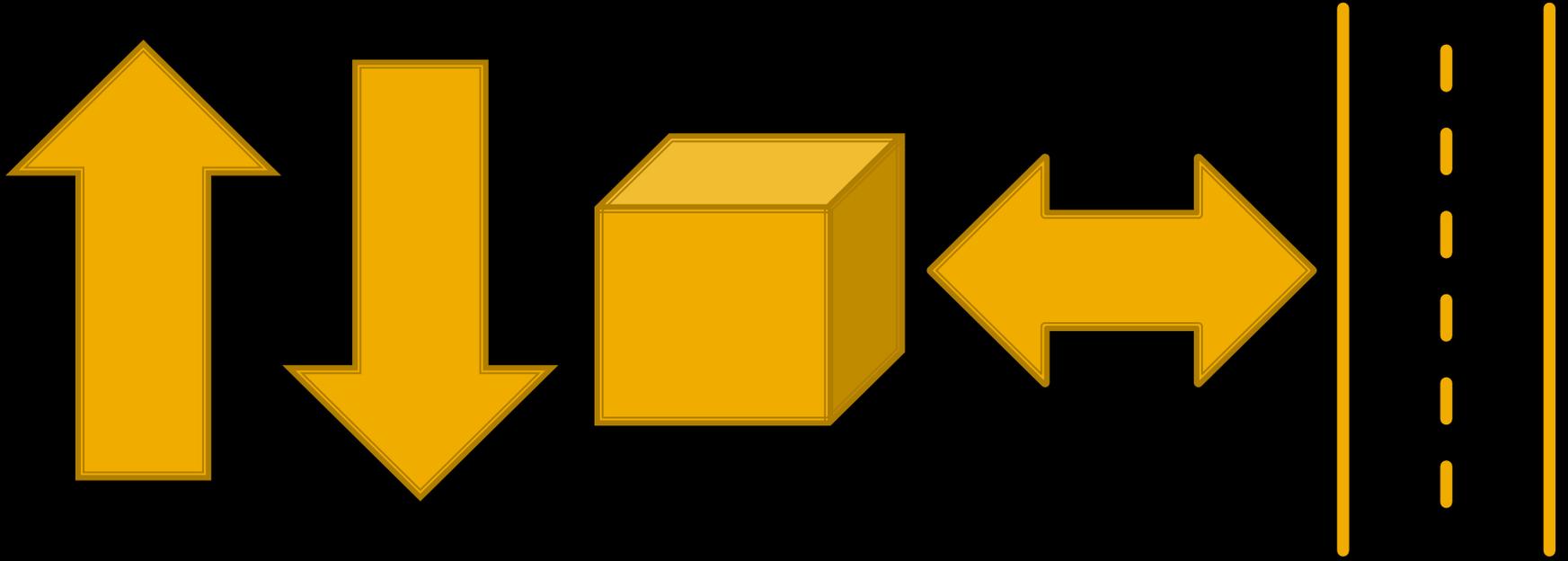


# Outcomes



- Learn the most **at-risk positions** firefighters face today
- Learn and create problem-solving tools that you can use for quick incident analysis
- Make a Difference in your decision-making abilities





The “5”



# Today's Incident Action Plan

**Everyone  
Goes Home**

**Nobody Gets  
Hurt**

**Excellent  
Service is  
Delivered**

**Retire Happy  
and Healthy**





# Upfront Stuff

**Don't Get Into Trouble in the First Place**

**Learn and Observe the Rules of Disengagement**

**EGH**

**Aggressively Shorter Fire Attack w/o it Getting Better**

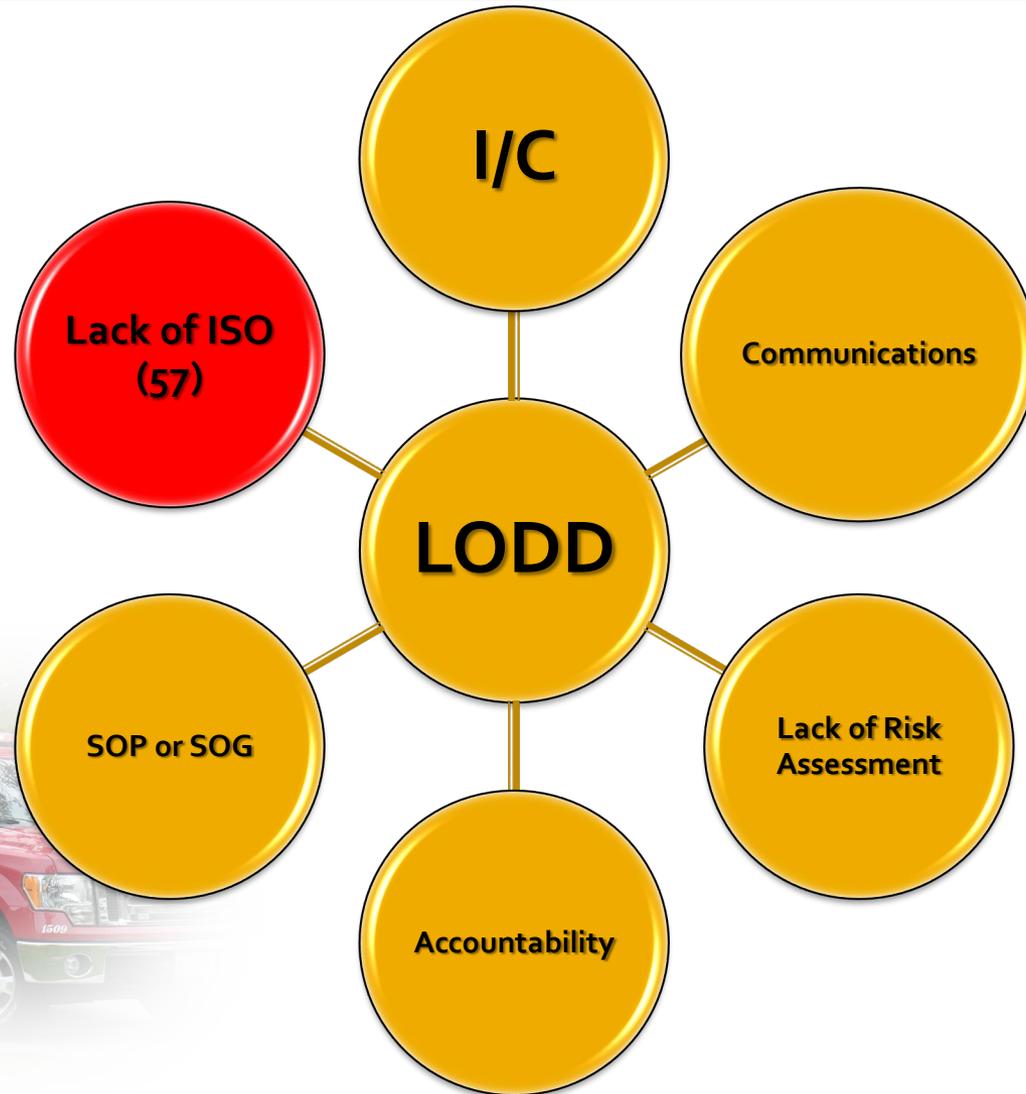
**Best Water is the Fastest Water = Water Good Air Bad**

**What We Know:**

- The box is collapsing**
- The fuel will ignite**
- It is cancerous**



# Major Contributing Factors - LODD



A firefighter in full gear is positioned on a silver aerial ladder, looking towards a house engulfed in thick black smoke. The ladder has a red banner that reads "YOUR FIRE DEPARTMENT". A yellow tag with the word "YOU" is attached to the firefighter's gear. In the foreground, another firefighter is visible near the entrance of the house. The scene is a dramatic representation of a fire emergency.

Is there a reason to be?

- On Top Of
- Underneath
- Next to
- Inside of

Survivable

Tenable



# Long Term Training Plan

## Emergency Situations and the Actions to be Taken

Situation or Conditions Encountered	Actions to be Taken by Firefighter(s) or Companies Involved	Response from IC or Crews Operating on the Fireground
Low pressure bells go off on SCBA of crew member while operating on deep inside the interior of building	Exit structure immediately with crew intact. Inform I/C of low-pressure situation. Stay on the line while exiting.	RIT must prepare for deployment. I/C must back-up RIT. Conduct company level PAR upon exit
A crew member becomes separated from team	Call MAYDAY with last know location, situation, conditions. Begin oriented search. Notify I/C of situation.	Initiate RIT deployment, replace RIT with assist teams. Consider radio frequency change for all other companies.
Firefighters are overrun by fire in a hallway of a multi-family building	Attempt to knockdown fire while preparing for exit. Breech wall of other units, locate stairwell. Retreat position.	Reinforce all interior positions. Consider ventilation. Ensure RIT availability near emergency area.
A sector officer observes indications of possible collapse of building components with crews operating on the interior of the building	Announce Emergency Traffic or other priority message. Order evacuation of companies. Conduct PAR. Establish collapse zones.	Order PAR. Consider upgrade of alarm. Confirm PAR. Prepare for strategy change to defensive. Do not allow other companies to enter structure.
Companies are working on unstable roof or floor	Exit hazardous area immediately. Notify I/C. Conduct PAR.	Shift strategy, reassign crews to other assignments.



# Little Things Matter

**TAP**

- Time
- Actions / Assignments
- Progress

**TLO**

- Task
- Location
- Objectives

**CAN**

- Conditions
- Actions
- Needs

**LIP**

- Location
- Identification
- Problem



# The Simplest Solution - IDLH

**P**

- Your PEOPLE
- Crew Integrity

**A**

- Air Supply
- Work / Exit /Escape

**L**

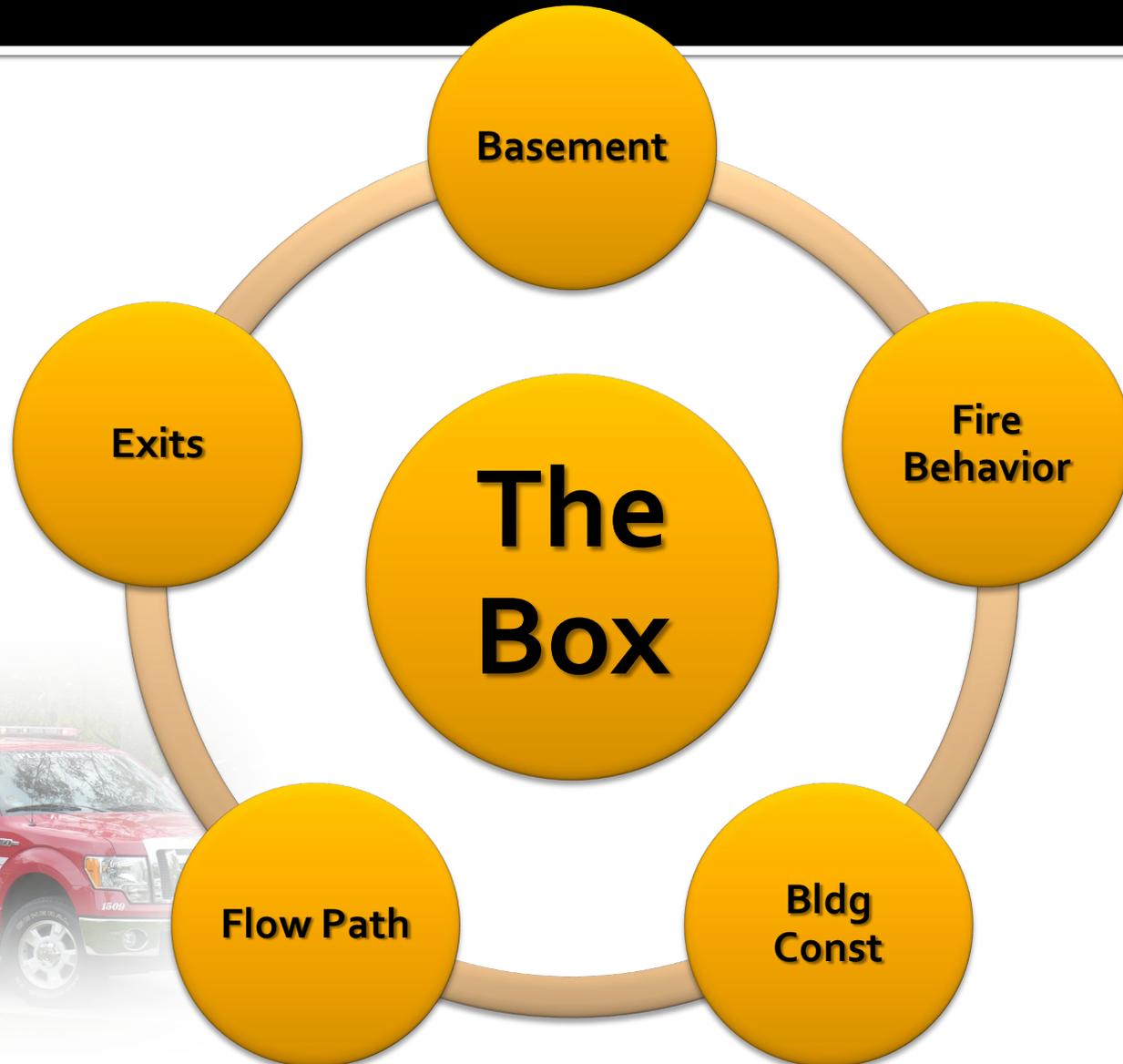
- Location
- 2 Points Communicated

**S**

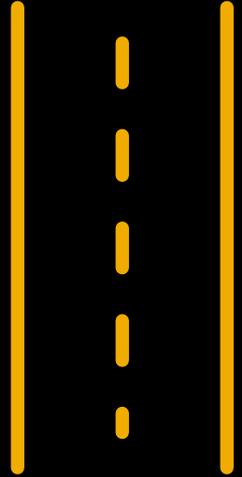
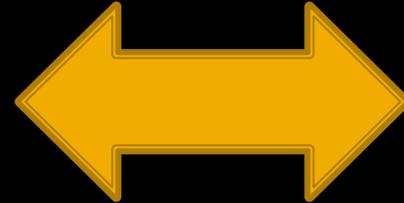
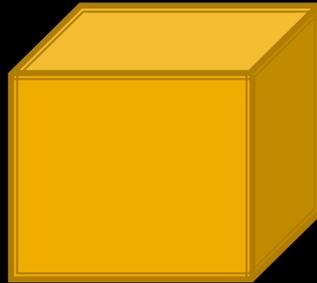
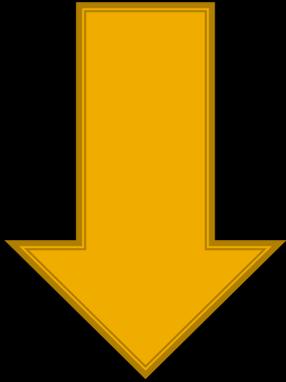
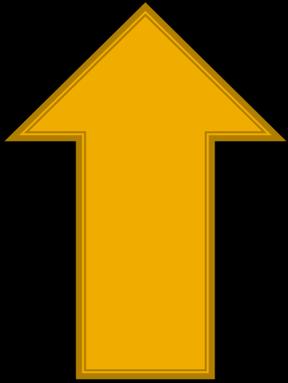
- Surroundings
- Flow Path / Temp. Increase /Your Box

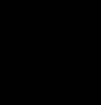


# 360 Survival – Assigned & Reported

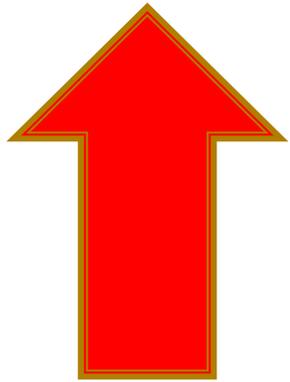


# Today's Danger Zones





# On Top of What's Burning



**Who &  
Where**

**What  
Hazards**

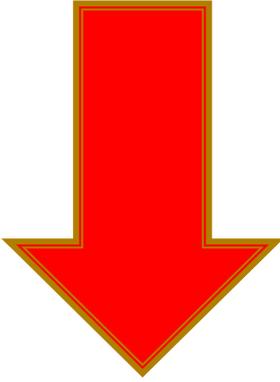
**Prevention**

Tips & Triggers





# Under What's Burning



**Who &  
Where**

**What  
Hazards**



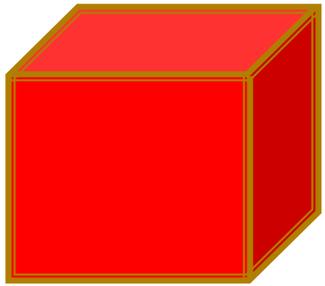
**Prevention**

Tips & Triggers





# Inside the Box



**Who &  
Where**

**What  
Hazards**

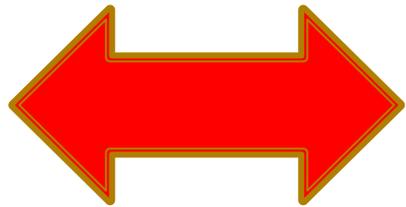
**Prevention**

Tips & Triggers





# Next to What's Burning



**Who &  
Where**

**What  
Hazards**

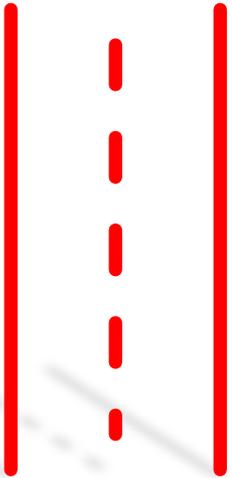
**Prevention**

Tips & Triggers





# On or Near the Roadway



**Who &  
Where**

**What  
Hazards**



**Prevention**

Tips & Triggers



# ISO Arrival at the Structure Fire





# Survival Scan

How much hose is inside

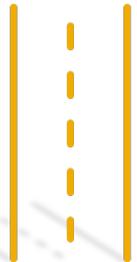
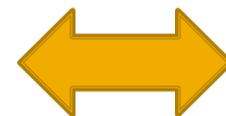
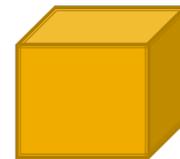
EDITH Principle

Is COOLING underway

Countdown Timer in Use

On-Deck & Support

RIC / RICO





# Upon Arrival and Assuming the ISO Assignment

- What MODE/strategy are they in?
  - Does it match the risk level
- What TASKS have been assigned?
  - In progress / complete / remaining
- Are the MODE/TASKS getting it done?
  - Is it TIME TO LEAVE
- Are tactical BENCHMARKS being achieved?
  - Fire Attack – All Clear – Under Control



# Upon Arrival and Assuming the ISO Assignment

- Are SAFETY SYSTEMS in place
  - Did you complete the SURVIVAL SCAN
  - Have the most at risk been covered
- Do you know WHO IS INSIDE / ON TOP OF the hazard zone
  - Account for them first
- Are COMMUNICATIONS effective
  - All on same play book and in a 2-way communication mode

**“If it’s Predictable...It’s Preventable.”**

**Gordon Graham**



# The ISO at the Incident Scene



# SITUATIONAL AWARENESS



*"Command From Engine 1,  
Making Entry on Division 2  
Alpha Side, light smoke on  
interior"*

# Incident Safety Officer Facts



**If You  
Are  
Doing  
Your  
Job**



# Incident Safety Officer Facts



**If You  
Are  
Doing  
Your  
Job**



# Incident Safety Officer Facts



**If You  
Are  
NOT  
Doing  
Your  
Job**



## Condone

- Bad Actions
- Bad Actors



## Stats

- Injury
- Fatality



## Legal

- Self
- Department

# Key Principle

**Immediate  
Hazard  
Examples**

**Fire  
Behavior**

**Fire  
Extension**

**Energy**

**Water**

**Personnel  
Placement**

**Collapse**

# Key Principle

## Potential Hazard Examples

Slips and  
Falls

Fatigue

Opposing  
Actions

Lack of  
Coordination

Depth

Traffic and  
Positioning

# Practice



# Practice





# ISO Tips



Be Pessimistic  
About  
the  
Operation





# ISO Tips

## The 5 R's

Read the Risk

Read the Smoke

Read the Bldg.

Read the FF

Read the Energy

Dave Dodson



# ISO Tips





# ISO Tips

Communications  
Process Keys  
› Monitor the  
Progress  
Reports

# Part of the Picture – Traps

## Company Level Stuff

- Bunker Police
- Tools/Equipment Use
- Situational Awareness

## System Stuff

- Passports / Accountability System
- PAR checks

## Tactical Stuff

- Separate Yourself from Tactical Input
- Be an ISO not a FGO



# Conclusions

**Everyone  
Goes Home**

**Nobody Gets  
Hurt**

**Excellent  
Service is  
Delivered**

**Retire Happy  
and Healthy**



# Follow-up & Homework



[TheTrainingOfficer.com](http://TheTrainingOfficer.com)  
[TheIncidentSafetyOfficer.com](http://TheIncidentSafetyOfficer.com)