LESSON 6 TRUCK COMPANY OPERATIONS

Objectives • The Student Shall:

- -Identify 9 Truck Company
 - Objectives
- List, in order, Building SearchPriority AreasList, in order, the routes of victim
- removal
- Identify and compare the elements of primary and secondary search
- Define the 3 classes of rescue

Objectives

- The Student Shall:
 - Identify 5 Laddering objectives
 - List 7 advantages gained by proper ventilation
 - State the main objectives of both salvage and overhaul
 - Identify and discuss 5 Overhaul
 Safety Considerations
 - Identify 9 criteria for proper apparatus placement

Truck Company Objectives Search and Rescue Ventilation Laddering Forcible Entry Check for Fire Extension Salvage Overhaul Utility Control Ladder Pipe Operation

The Tactical Plan 1. What's Needed to be Done? 2. What's Needed to do it? 3. Who's Needed to do it? 4. How is it to be Done?

Truck Co. Operations		
Incident Priorities		
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 Life Safety 	 Incident 	
Fire Service	Stabilization	
Personnel	Interior	
Fire Victims	Exposures	
Other Emergency Personnel	ExteriorExposures	
- Spectators	 Property 	
	Conservation	

Forcible Entry

What is the Quickest, Cheapest, and Most Effective Way to get in There?

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Forcible Entry Pre-Fire Information

- Which Buildings are Always Open at their Street Entrance?
 - Hotels, Apt. Bldgs., Some Office Bldgs.
- Which Buildings are Locked at the Street and also may Have Lobby Doors that may Require Forced Entry?
- Which Buildings may be Difficult to Force?
 - Fox Locks, Police Locks, Roll-down Steel Gates

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Forcible Entry Pre-Fire Information

- Where is the Best Place to make Entry?
 - Generally the Front is the Easiest, but there can be Exceptions
- Is There a Security Guard on Premises or will one Arrive with a Key Shortly?

Truck Co. Operations

Search Duties

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- Locate and Remove trapped Occupants
- Ventilate Where Needed
- Temporarily Prevent Extension of Fire By Closing Doors & Windows
- Check for interior and Exterior Fire Extension
- When Necessary, Help Locate the seat of the Fire

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Truck Co. Operations

Search Size-Up



- What Type of Occupancy is involved?
- What Time of Day is it?
- Is the Building a Closed-Up Dwelling with heavy Smoke Showing?
- Are Cars Parked in the Driveway or are there any other indications of an occupied dwelling?

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Truck Co. Operations

Search Size-Up



- Are there Occupants visibly calling for Help?
- Can calls be heard from Inside the structure?
- Is fire showing? Where?
- Given the Building's Interior Construction, in which Direction will Fire travel most Rapidly?

Truck Co. Operations

Rescue Considerations

- The Number of people in the fire building
- The paths by which fire and smoke can reach them
- The routes available to truck crews for reaching people and removing them from the building

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Truck Co. Operations

Areas of Greatest Danger to Occupants

- 1. Fire Room / Fire Floor
- 2. Fire Room / Fire Floor Immediately Above
- 3. Highest Floor
- 4. Floors in Between
- 5. Don't Forget Basement/Cellar

SEARCH PRIORITIES

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Truck Co. Operations

Classes of Rescue

- Class I Rescue
 - Rescuer knows victim's location
 - Neither rescuer or victim is in great danger
 - -Examples:
 - Lock-out
 - Evacuation of Uninvolved exposure

Classes of Rescue Class II Rescue Rescuer knows victim's location Removal requires rescuer and victim to be endangered Examples: Rescue of victim from window Tech rescue where victim location can be seen

Classes of Rescue

Class III Rescue

Rescuer does not know victim's location

Removal exposes both rescuer and victim to extreme danger

Examples:
Reported victim / unknown location

Often conducted under deteriorating conditions

Routes of Victim Removal

• The more removal deviates from the normal routes of egress, the more Personnel required, the more time it takes, and the more danger involved

1. Interior Stairs

2. Fire Escape

3. Platform or Aerial

4. Ground Ladder

5. Rope

Search Types • Based on Fire conditions and Occupancy - Perimeter search - Light Scan Search - Lifeline Search - Thermal Imaging Equipment

Principles of search Primary search Quick No water on fire Conditions Worsening Primary search Secondary search Slower Fire darkened down More Through

Laddering Objectives Rescuing trapped Occupants Roof operations Access to Upper Floors via windows Emergency escape for Interior Crews Replacing Burned-out stairways

Truck Co. Operations

Ladder Operations

- Gaining Access to fire buildings
- Replacing Burned Out stairways
- Removing Trapped Victims
- Removing people from Crowded fire escapes
- Getting from one roof to another (Bridging)
- Bridging Fences

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Truck Co. Operations

Ladder Operations

- Ventilating Windows
- Transporting Injured, in place of Litters
- Reinforce weakened building features
 - Weakened or missing floors
- Hoisting (Used with a pulley as a fulcrum to hoist a Stokes basket)
- Elevated Streams

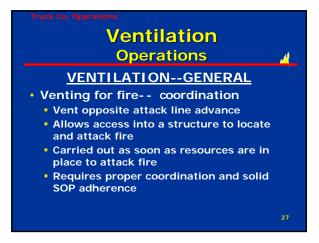
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Ventilation

The systematic removal of fire gases from a structure while replacing them with fresh air

Ventilation Operations VENTILATION--GENERAL -BENEFITS -Prevents mushrooming -Allows forces to gain/maintain entry -Improves visibility -Increases safety on interior -Controls primary damage

Ventilation Operations VENTILATION--GENERAL Venting for life- - & required Vent/ enter/search Draw products of combustion away from life hazard May spread fire Utilize natural openings Scuttles / skylights Bulkhead doors in MD's



Advantages to Proper Ventilation

- Reducing danger to trapped occupants and thus extending the time available to firefighters for rescue operations
- Increasing visibility for both firefighters and occupants, thereby decreasing the danger inherent in other fireground operations and increasing fireground safety

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Advantages to Proper

Ventilation

- Permits quicker and easy entry to allow search operations or to advance lines
- Minimizes time required to locate seat of the fire
- Minimizes the time required by truck crews to find areas to which fire has spread within the building

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Advantages to Proper Ventilation

- Decreases or stops the spread of fire
- Reduces the potential for flashover or backdraft

Ventilation Considerations 1. Is there a need for ventilation? 2. Where is the ventilation needed? 3. What type of ventilation is needed? Natural or mechanical Vertical or horizontal 4. What are the life hazards? 5. Location and extent of fire

Roof Operations

Roof Access

Building types:

Attached - Unattached
In regard to roof access, attached buildings of unequal height shall be treated as unattached buildings

Initial Scene Assignments dictate duties

ROOF ACCESS PRIORITY-ATTACHED M.D

Adjoining Bldg. -- same height
Aerial device
Lower floor of fire bldg to rear fire escape, up gooseneck
Rear fire escape from ground

ROOF ACCESS PRIORITY-UNATTACHED M.D * Attchd bldgs of diff ht = Unatt • Aerial • Lower floor of fire bldg to rear fire escape, up gooseneck • Rear fire escape from ground

NEVER
ASCEND TO THE ROOF VIA THE INTERIOR STAIRS OF THE FIRE BUILDING!!!



Roof Operations Cutting the Roof Cut as directly over the fire as is safely possible. Consider: Fire Conditions Wind Direction Building Orientation Roof Construction Personnel Roof Slope

Roof Operations

ROOF SAFETY GUIDELINES

Preplan roof types / hazards

Study building construction

Size up the roof before you go there

Work in pairs if possible

Have at least 2 ways off

ROOF SAFETY GUIDELINES

Be sure where you are about to step will hold your weight

Use extreme caution when working near the roof edge, especially flat roofs without parapets

Roof Operations

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ROOF SAFETY GUIDELINES

- Never operate between your cut and the roof edge
- Beware the "Circle of Danger"
- Never let a live, spinning saw operate more than 6" above the roof deck

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Truck Co. Operations

Property Conservation

- Salvage
- Overhaul
- Utility Control
- Fire Cause determination

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Truck Co. Operations

Salvage and Overhaul

- Main objective of salvage is to protect the building and its contents from water damage
- Main objective of overhaul is make sure the fire is out

Overhaul Overhaul operations begin as soon as the main body of fire is knocked down!!! Tools include: Hooks / Axes / Halligan Tools Heat detecting equipment Thermal imaging equipment

Truck Co. Operations

Areas of Possible Rekindling

- Walls and ceilings
- Shafts
- Cabinets, closets, and compartments
- Window and door casings
- Soffits and overhangs
- Any area above the fire

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Overhaul Safety

- Wear SCBA
- Conduct a pre inspection before overhaul begins
- Assign fresh personnel to overhaul duties (Personnel permitting)
- Mark and barricade hazardous areas
- Provide lighting in necessary work areas

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Salvage Salvage begins as soon as the fire attack begins (Personnel permitting) Tools include: Salvage Covers Portable pumps Mops / Brooms Siphons

Control of Utilities
 HVAC systems can circulate fire and smoke to uninvolved areas
 Gas and oil supplies to heating and cooking appliances
 Control of electrical supplies and devices
 Water flowing from broken pipes can add unnecessary weight to an already weakened building (also unnecessary water damage)

Apparatus Placement

• Maximum Advantage

• Use only companies that are necessary

• Allow for options

Apparatus Placement Based on: SOP's · Size ф Pre danned Rescue staging Conditions procedures Exposure Fire officer's Protection decision Fire Attack Direct orders from the Ventilation needs Incident Commander

Summary Truck Company Objectives Building Search Priorities Routes of victim Removal Primary / Secondary Search Laddering Objectives Ventilation Advantages Salvage and Overhaul Apparatus Placement Considerations

Next Lesson • Lesson 7: Midterm Exam - Review all Handouts • Assigned Reading for Lesson 8: - Fireground Strategies • Ch. 5 • Pg. XXX, "Guide for Answering Questions