

This Month's Working Fire...

©1999- Spirit Sports

**Volume 99-2: February 1999
Approx. Program Length 53:40**

FIRELINE

Christmas Eve House Fire Pittsfield, MA

Approx. length: 9:25

Firefighters arrived on scene to find a smoky house fire which shrouded the neighborhood. An interior attack was begun to find the seat of the fire which started in the basement. Extreme clutter and debris in the house made movement by firefighters inside the house difficult and was a contributing cause of the fire in terms of fuel supply. In addition, the balloon construction of the house caused the fire to spread up the chimney and through the walls. This accounted for very little fire being visible in the living area. Positive pressure ventilation was used with ventilation teams on the roof reached by aerial. For more information, contact Chief Jim Tobin , North Naples Fire Department, 1441 Pine Ridge Road, Naples, FL 34109 or call him at 941-597-3222.

Urban Deer Rescue San Carlos, CA

Approx. length: 4:29

A deer in search of food was attracted to vegetation inside a residential wrought-iron gate and proceeded to get its body stuck halfway inside the gate. Police, Animal Control, and Fire arrived on scene. The deer was kept calm by a sheet being draped over its head as Animal Control held its legs to keep the deer from kicking. Extrication spreader jaws were selected to spread the iron bars of the gate to release the animal. Clear communication among team members was demonstrated to be essential at the moment of release. For more information, contact Captain Tom Mota or Captain Rod English, South County Fire Authority, 600 Elm Street, San Carlos, CA 94070 or call them at 650-802-4255.

HANDS-ON

Engine Pump Recertification Part I

Approx. length: 10:11

Departments are required to perform annual recertification tests of their engines' pumpers. Trainer Barry Ashman shows you the right way to do it and offers some great tips to make it easier. Part One of this two-part series covers the Dry Vacuum, Suction Hose, and Priming tests. For more information, contact Barry Ashman at Ashman Enterprise: 941-772-3129 or 941-336-E-ONE.

Fireline Incident Analysis

HANDS-ON (cont.)

Forcible Entry Tips & Techniques Part II

Approx. length: 12:40

In Part Two of a three-part series, Jacksonville firefighters demonstrate a number of techniques and tips that can be used for forcible entry. This month concentrates on “the irons” as forcible entry tools: the halligan tool and the flat ax. For more information, contact Captain Rob Sorenson, Jacksonville Fire-Rescue Dept., 6925 Evergreen Ave., Jacksonville, FL 32208 or call him at 904-645-0124.

FIRE MEDICS

School Bus Mass Casualty Incident

Approx. length: 9:55

A pickup truck collided with a school bus carrying forth children on its morning run. This incident focuses on the EMS management side of such an incident rather than treatment which was fairly standard. Also covered are the issues of apparatus availability and staging backup ambulances as they relate to Incident Command. For more information, contact Lawrence Tan, Commander of EMS Operations, New Castle County police Department, 3601 N. DuPont Highway, New Castle, DE 19720 or call him at 302-571-7493. Or contact Chief Al Riale, Odessa Fire Company, P.O. Box 81, Odessa, DE 19730 or call him at 302-378-7075.

EVOLUTIONS 2000

Kramer vs. Kramer: Firefighting vs. EMS Duties

Approx. length: 9:55

Working Fire and Professor/Chief Bill Kramer present our Continuing Education segment that's worth one credit from the University of Cincinnati. This month, Bill argues the merits of firefighters performing EMS duties versus the distraction from basic firefighting that such duties create. For more information, contact the Open Learning Fire Service Program, College of Applied Science, 2220 Victory Parkway, ML #103, Cincinnati, Ohio 45206 or call 513-556-6583.

This month's *Working Fire*...

From the Departments Involved...

DISCUSSION QUESTIONS FOR THIS MONTH'S INCIDENTS

The departments involved in this month's incidents pose some discussion questions that you can use as discussion-starters in your own department's training sessions. Let's kick it around!

Christmas Eve House Fire/Pittsfield, MA

Chief Jim Tobin, North Naples Fire Department, Naples, FL

1. Make sure all firefighters wear full turnout gear and SCBA even though the weather is cold and masks may be subject to fogging. This is especially important in a smoky fire such as this one.
2. Are you prepared for the possible hazards of cold-weather firefighting? Encourage responders to be careful of slipping and falling due to icy conditions. Check hydrants for freezing, in advance if possible, or have an alternate water supply plan ready in case you run into a frozen hydrant.
3. Are firefighters prepared to fight a fire on a holiday? Is there undue absenteeism on those days? Do you give your firefighters a reality-check about the emotionalism of a family in distress during the Christmas holidays?

Urban Deer Rescue/San Carlos, CA

Captains Rod English and Tom Mota, South County (CA) Fire Authority, San Carlos, CA

1. Do you train for basic animal rescues? Is your local Animal Control unit involved?
2. Do you stress the dangers of such rescues including the risk of disease and injury through contact with the animal?
3. In residential areas where such rescues often happen frequently due to animals seeking food, especially in winter, do you work with homeowners on ways to prevent animal invasion which may lead to hazardous rescues by the fire department?

Enhanced Training

Engine Pump Recertification, Pt. I

Objectives

After watching this program the student shall:

1. understand the basic tests that must be conducted for recertification
2. understand how to accurately conduct such tests

Standards and Regulations

This training is consistent with NFPA 1911, 1997 edition; IFSTA, Fire Department Pumping Apparatus, seventh edition, pages 217- 229; and appropriate OSHA regulations.

Training Outline

BASIC TESTS

The fire pump Dry Vacuum and Priming test should be performed to check the priming device, pump, and hard suction hose for air leaks. The primer is tested to see that it will successfully prime the pump in the mandated time limit.

Basic equipment needed includes a static water source, a hard suction hose, a 7" X 7" Lexan or Plexiglas sheet, and a medical stethoscope.

A. DRY VACUUM TEST

1. Procedure Guidelines
 - a. Drain water from pump
 - b. Inspect all gaskets and hard suction
 - c. Remove any foreign material in the hose or pump intake
 - d. Close all line drains, intakes and discharges
 - e. Tighten all intake caps
 - f. Un-cap all discharges
 - g. Subject the fire pump to a prime of at least 22" HG and start timing the test. G. The pump may not drop more than 10" Hg in a five-minute time period.

Answers to the quiz on page 6:

1. true 2. false 3. false 4. false 5. true

Engine Pump Recertification, Pt. I

B. HARD SUCTION HOSE TEST

This test can be done separate from the Dry Vacuum Test to cut down on possible locations of failure.

1. Procedure Guidelines

- a. Cap all intake and discharges tight and close all valves.
- b. Connect twenty feet of hard suction at a time to the steamer connection of the pump
- c. Cap the free end of the hard suction with a cap or Lexan and gasket.
- d. Start the engine of the truck and pull a prime of at least 22" HG and start to time the test.
- e. You can now turn off the engine.

The vacuum cannot drop more than 10" Hg in a five-minute time period.

NOTE: The time limit has been changed by NFPA 1911 from ten minutes to five minutes since 1997.

A. PRIMING TEST

1. Procedure Guidelines

- a. With the unit set up to draft water from a static source, close all discharges and intakes, line drains, booster tank valves, and petcocks.
- b. Place the transfer valve on the two-stage pumps in the "volume" position.
- c. With the pump in gear, start the priming.
- d. When water is discharged beneath the pumper, the test is complete.

For a pump rated 1500 GPM and under, the pump must prime within 30 seconds. Pumps rated over 1500 GPM must prime within 45 seconds.

Engine Pump Recertification, Pt. 1: Quiz

Date _____
Firefighter (print) _____

Chief/T.O. _____
Education Credits/
Hours/Units _____

Signature _____

Select the best answer:

1. True or False: A medical stethoscope can be used to listen for leaks.
2. True or False: A Dry Vacuum test is done with the pump half-full of water.
3. True or False: The Priming test for up to and including a 1500 GPM pump is 30 seconds.
4. True or False: Twenty inches HG is the amount you subject a fire pump to for a Dry Vacuum test.
5. True or False: During a Dry Vacuum test, the vacuum can drop 10" in a five-minute time period and pass the test.

(Correct answers can be found at the top of page 5.)

After watching this program the student shall:

Enhanced Training

Forcible Entry, Pt. II

Objectives

After watching this program the student shall:

1. become familiar with forcible entry tools (halligan and flat ax)
2. learn specific techniques and alternatives for gaining entry

Standards and Regulations

This training is consistent with NFPA 1500 and appropriate OSHA regulations.

Training Outline

A. "THE IRONS"

1. The Irons are a set of tools: the halligan tool and the flat ax which are often strapped and carried together.
2. Parts of the halligan tool
 - a. The adz (wedged-shape part of the head of the halligan)
 - b. The pick (sharp, pointed part of the head of the halligan)
 - c. The claw (curved, fork-like part of the head of the halligan)
3. When handled by a two-man crew, the Irons are useful for opening doors in conjunction with the flat ax.
 - a. One firefighter holds the halligan against a directed target while the other firefighter strikes the halligan with the ax.
 - b. The firefighter holding the halligan directs the action, commanding the ax-handler to swing or stop.

B. DOOR SIZE-UP

Firefighters should determine the following:

1. Which way does the door open? Inward or outward?
If you see hinges exposed, the door opens outward or towards you.
2. Where is the lock on the door?

Answers to the quiz on page 9:

1. false 2. true 3. true 4. d 5. d

Forcible Entry, Pt. II

C. OUTWARD-OPENING DOOR

1. Insert the adz-end of the halligan into the door jam, above or below the lock.
2. Hammer the adz with the flat ax and work the halligan back and forth until the door opens.

D. INWARD-OPENING DOOR

1. If there are no hinges exposed, the door will open inward, away from you.
2. METAL DOOR: Insert the **beveled side of the claw** against the jam.
WOODEN DOOR: Insert the **concave side of the claw** against the jam.
The beveled side will give you more leverage against a metal door.
3. Using the 30-inch halligan tool will allow swing room and room for two firefighters to work.

E. GENERAL INFORMATION

1. Compromise the door or the jam, whichever is weaker.
2. Look for other, possible easier, points of entry such as adjacent windows.

Forcible Entry, Pt. II: Quiz

Date _____

Chief/ T.O. _____

Firefighter (print) _____

Education Credits/
Hours/Units _____

Signature _____

Select the best answer:

1. True or False: The irons can be used to change a tire.
2. True or False: As the video mentions, the 24" halligan is useful as an officer's tool.
3. True or False: Sometimes a maul alone can be used to breach a door.
4. With inward-opening metal doors, the adz is placed:
 - a. against the concave side of the jam
 - b. against the bevelled side of the jam
 - c. inside the hinge
 - d. none of the above.
5. With an outward-opening door:
 - a. the adz is placed into the door jam
 - b. the halligan is hammered with the flat ax
 - c. the halligan is worked back and forth
 - d. all of the above

(Correct answers can be found at the top of page 8)

Evolutions 2000

University of Cincinnati Continuing Education Program

Firefighter Duties vs. EMS Duties

If you're enrolled in the **Open Learning Fire Service Program** at the **University of Cincinnati**, here's your opportunity this month to earn one college credit hour for watching *Working Fire*.

VOULUME 99-2

ARE FIREFIGHTERS AND EMERGENCY MEDICAL SERVICES IN COMPETITION WITH ONE ANOTHER?

Complete written responses to the following three essay questions:

1. Do you feel that emergency medical services (EMS) enhance or detract from the fire service mission?
2. How would you improve the organizational structure of your fire service agency to make EMS and fire suppression more compatible?
3. What should be the name of an emergency service organization which delivers both fire and EMS protection? Explain.

Submit your responses to:

**Mr. Bill Kramer
University of Cincinnati
College of Applied Science
2220 Victory Parkway, ML #103
Cincinnati, OH 45206**

ENROLLMENT INFORMATION:

For more information on enrolling in the Open Learning program to gain college credit, call *Working Fire* at 800-516-3473 for a brochure or, to register directly, call the University of Cincinnati at 513-556-6583. Associate and bachelors programs are available. Call to have your transcripts evaluated.