## **Wind-Driven High-Rise Fires**

## Pre-Test

## Correct answers are highlighted

- 1. Which statement about size-up at a wind-driven high-rise fire is incorrect?
  - a) In a building with scissor-type stairs, the apartment and stairway layout should be surveyed on the floor below the fire
  - b) Size-up should include whether duplex apartments are present
  - c) Length, size, and configuration of the public hallways are part of the size-up
  - d) Checking the layout of the apartment below the fire apartment will be beneficial if possible
  - e) The number of apartments per floor is a factor in size-up
- 2. Which of the following ventilation profiles would indicate a wind-driven fire?
  - 1. Flames lapping out of the top half of the window, auto exposing the apartment above
  - 2. Heavy smoke leaving the window and immediately moving vertically
  - 3. Fire venting sideways out of a window
  - 4. Fire visible in an apartment, but not venting
  - 5. Nothing visible from the exterior
    - a) 1,2
    - b) 1,3
    - c) 3,5
    - d) 1,4
    - e) 3,4
- 3. Where should wind conditions be assessed to determine whether wind will be a factor at a fire?
  - a) Based on the weather report received at the start of the tour
  - b) The floor above the fire, assessed by the "floor above" team
  - c) The street level upon arrival
  - d) During response
- 4. Which of the following describes a correct way to control a "flow path"?

- a) Closing the door to the fire apartment and the stairways on the fire floor
- b) Opening as many doors as possible will give multiple outlets for the fire, removing the flow path
- c) There is no way for members on scene to control a flow path
- d) Early ventilation of the bulkhead door (roof top) to the attack stairway should be a high priority
- e) None of the above
- 5. Which statement properly describes the movement of smoke and heat at a fire in a building?
  - a) Smoke and heat always rise in the building
  - b) Smoke and heat always move to the exterior of the building
  - c) Smoke and heat always move from a higher pressure zone to a lower pressure zone
  - d) Smoke and heat movement is not predictable
- 6. Which of the following statements about wind blowing into a fire apartment window is incorrect?
  - a) If the outside temperature is below freezing, the wind will cool the fire, reducing the danger to firefighters
  - b) The wind is pressurizing the fire area
  - c) The wind may over-pressurize the fire area, causing flames to occasionally vent out the window
  - d) The situation may require alternative strategies and tactics in order to extinguish the fire
- 7. When presented with wind blowing into a vented fire apartment window and the need to commence operations on the fire floor, which option is the best choice?
  - a) Deploy a wind control device (WCD) over the open window
  - b) Wait for the wind to die down
  - c) Vent the remaining windows in the fire apartment from above
  - d) Begin normal firefighting operations
  - e) None of the above
- 8. Which statement about the fireproof curtain (wind control device) is correct?
  - a) The curtain is composed of material designed not to burn
  - b) There are ropes attached to all 4 corners
  - c) The curtain is approximately 6' x 8'
  - d) All of the above are correct
  - e) None of the above are correct

- 9. Which of the following statements about deploying the fireproof curtain (wind control device) is correct?
  - a) Two firefighters are required to carry the curtain
  - b) The member must fully vent the window above with the 6' hook
  - c) The member must have his or her face piece on when deploying the curtain, and should not lean out of the window
  - d) All of the above
  - e) None of the above
- 10. Which statement about positive pressure ventilation is correct?
  - a) It uses the same concept as the SCBA face piece: the higher pressure inside the face piece does not allow contaminants to enter
  - b) The goal is to make the stairwell a higher pressure zone than the fire
  - c) It can be used to remove smoke from a stairwell
  - d) All of the above
- 11. When properly employed, positive pressure ventilation will result in which of the following?
  - a) Increased visibility in the stairwell
  - b) Increased heat in the stairwell
  - c) Toxic smoke in the stairwell
  - d) All of the above
  - e) None of the above
- 12. What is the proper angle for the positive pressure ventilation (PPV) fan to be set at?
  - a) 45°
  - b) 80°
  - c) 90°
  - d) 100°
  - e) None of the above

- 13. What is the main advantage of using positive pressure ventilation (PPV) fan(s) to pressurize the attack stairway?
  - a) PPV eliminates wind from entering the apartment
  - b) Fleeing occupants are comforted by the flow of air as they exit
  - c) PPV increases visibility and reduces temperatures in the stairwell
  - d) PPV draws the fire to the stairway
  - e) None of the above
- 14. Which of the following statements regarding the use of the high-rise nozzle is correct?
  - a) The high-rise nozzle should only be used as a last resort after all other options have been exhausted
  - b) The high-rise nozzle must be hooked into the window on the fire floor from below
  - c) If no spotter is present, the officer should utilize the sound the stream is making to help determine proper placement and direction of the stream
  - d) The proper pressure to supply the nozzle is 50 psi at the standpipe outlet
- 15. Which of the following statements about using the high-rise nozzle is correct?
  - a) The preferred spray is a fog pattern into the bottom of the window
  - b) The stream should be deflected against the spandrel wall for optimal extinguishment
  - c) The stream should be directed off the ceiling of the fire apartment
  - d) The stream will have to be operated for 15 minutes to 30 minutes to have any noticeable effect on the fire