Ladders

1. What is generally the maximum length straight ladder that can be raised by one fire fighter? p. 381

A.) 22 foot (7 m)
B.) 18 foot (5 m)
*C.) 14 foot (4 m)
D.) 10 foot (3 m)

2. Between how many rungs of the roof ladder should you slip your shoulder between when placing a roof ladder? p. 393

A.) One
B.) Three
*C.) Two
D.) Four

3. What is the minimum number of ladder rungs that should show above the roofline? p. 369

A.) Four
*B.) Five
C.) Seven
D.) Six

4. Around how many rungs should the excess halyard rope be wrapped when tying it off? p. 381

A.) Four
*B.) Two
C.) Three
D.) One

5. What is grasped by the fire fighters when performing the four-fire fighter flat shoulder carry? p. 378

A.) Farther rung
B.) Closer rung
*C.) Closer beam
D.) Farther beam

6. What is used to determine the structural integrity of a portable ladder? p. 365

*A.) Service testing
B.) Maintenance
C.) Safety testing
D.) Skill evaluation

7. How many fire fighters in full protective clothing and equipment can most fire department portable ladders support in a rescue situation? p. 367-368

A.) Four
B.) Three
C.) One
*D.) Two

8. What happens to the heat sensor label on a ladder when it is exposed to a particular temperature? p. 358

A.) Reveals a warning
B.) Expands
*C.) Changes color
D.) Peels off

9. What portion of the ladder's height should the base of the ladder be placed out from the building to accomplish the proper climbing angle? p. 367

A.) One-eighth
B.) One-third
C.) One-half
*D.) One-fourth

10. What is the minimum number of sections required on an elevating platform apparatus? p. 359

A.) Four
*B.) Two
C.) Three
D.) One

11. How should the ladder be positioned before starting the three-fire fighter suitcase carry? p. 374

A.) On both beams on the ground
*B.) On one beam on the ground
C.) Standing vertically
D.) On the mounting brackets

12. How should the hooks of the roof ladder be oriented when raising or lowering the ladder on the roof? p. 396

*A.) Away from you
B.) Near you
C.) Towards you
D.) Far from you

13. Where are the fire fighters positioned when performing the four-fire fighter flat carry? p. 375

*A.) One at each corner
B.) All four rungs from the ends
C.) All on the fly section
D.) Two at opposite corners and two in the center

14. Where should the top beam of the ladder be rested when performing the one-fire fighter ladder carry? p. 371

A.) Head
B.) Knee
*C.) Shoulder
D.) Hip

15. Which is the best location(s) to secure a ladder with webbing or a rope? p. 389

*A.) Tip and base
B.) Tip and center
C.) Tip, center, and base
D.) Center

16. What is the widest section of an extension ladder? p. 358

A.) Guide
B.) Pawl
*C.) Bed
D.) Fly

17. What should be done with the halyard when an extension ladder has been raised? p. 381

*A.) Tie it off
B.) Thread it on the beams
C.) Loop it in the beams
D.) Push it aside

18. What type of carry does the four-fire fighter rung raise begin with? p. 387

*A.) Four-fire fighter flat carry
B.) Four-fire fighter shoulder carry
C.) Three-fire fighter shoulder carry
D.) Three-fire fighter flat carry

19. What is the minimum distance that ladders should be kept from any power lines? p. 366

*A.) 10 feet (3 m)
B.) 15 feet (4.5 m)
C.) 20 feet (6 m)
D.) 5 feet (1.5 m)

20. What type of commands should the ladder carrying leader give? p. 370

A.) Countdown
B.) One-step
*C.) Two-step
D.) Review

21. Which NFPA standard provides general guidance for ground ladder users? p. 362

A.) NFPA 1933
B.) NFPA 1931
*C.) NFPA 1932
D.) NFPA 1934

22. What A-shaped structure created with two ladders is used to lower a rescuer into a trench? p. 357

*A.) Ladder gin
B.) Ladder flock
C.) Ladder rim
D.) Ladder beam

23. What is used to keep the beams from separating on a ladder? p. 357

A.) Truss block
B.) Rung
C.) Rail
*D.) Tie rod

24. To what height should the tip of the ladder be brought when performing the one-fire fighter rung raise on a long and heavy ladder? p. 381

A.) Waist
B.) Knee
*C.) Chest
D.) Head

25. Who should perform routine maintenance on the ladder? p. 363

A.) Contractors
*B.) Fire fighters
C.) Repair personnel
D.) Manufacturers

26. What is the maximum allowed height of fire service portable ladders in general? p. 360

A.) 40 feet (12 m)
B.) 115 feet (35 m)
*C.) 50 feet (15 m)
D.) 24 feet (7 m)

27. What is carried to the front on most ladders? p. 371

A.) Tip
*B.) Butt
C.) Halyard
D.) Pawl

28. Who is responsible for checking for overhead hazards when performing the two-fire fighter rung raise? p. 384

A.) Fire fighter at the tip and at the butt
*B.) Fire fighter at the tip
C.) Fire fighter at the butt
D.) Spotting fire fighter

29. What should the ratio of the ladder height to the distance from the structure be? p. 379

A.) 3:1
B.) 6:1
C.) 5:1
*D.) 4:1

30. What is the last thing that should be done when performing the two-fire fighter rung raise? p. 387

A.) Lean the ladder into place
*B.) Check the climbing angle
C.) Tie off the halyard
D.) Raise the fly section

31. What material is usually used to construct an I-beam ladder? p. 357

*A.) Fiberglass
B.) Steel
C.) Aluminum
D.) Wood

32. Which ladders are commonly 12 to 14 feet (4 to 4.2 m) long and can reach the windows and roofs of one- and two-story structures? p. 360

*A.) Straight
B.) Roof
C.) Bangor
D.) Extension

33. At what point should fire fighters pivot when performing the three-fire fighter flat shoulder carry? p. 376

*A.) Ladder is about chest height
B.) Ladder is about neck height
C.) There is no pivot in the carry
D.) Ladder is about hip height

34. Where are the fire fighters positioned at the start of the two-fire fighter rung raise? p. 384

A.) One at the butt and one in the center
B.) Both at the butt
C.) Both at the tip
*D.) One at the tip and one at the butt

35. Where should the shorter fire fighters be placed during a ladder carry? p. 376

A.) Middle
B.) Tip end
*C.) Butt end
D.) Should not be mixed with taller fire fighters

36. Up to what length extension ladders will the two-fire fighter shoulder carry generally be used with? p. 371

A.) 14 foot (4 m)
*B.) 35 foot (11 m)
C.) 25 foot (8 m)
D.) 50 foot (15 m)

37. Where should the tool be placed when carrying it up a ladder? p. 391

A.) Under the beam
*B.) Against the beam
C.) On top of the rungs
D.) Sideways across the ladder

38. Which types of ladders are often designed to be used with the fly in? p. 387

A.) Steel
B.) Metal
C.) Fiberglass
*D.) Wood

39. How many points should you try to maintain contact with the ladder when dismounting? p. 392

A.) One
B.) Two
*C.) Three
D.) Four

40. How much additional length must the ladder have for every 15 feet (5 m) of vertical height? p. 370

*A.) 1 foot (.5 m)
B.) 3 feet (1.5 m)
C.) 4 feet (2 m)
D.) 2 feet (1 m)

41. What is the most important check when placing a ladder? p. 366

*A.) Location of overhead utility lines
B.) Location of the fire
C.) Topography of the immediate area
D.) Distance from the apparatus

42. What part of the ladder carries the weight of the person down to the ground? p. 357

A.) Block
*B.) Beam
C.) Rail
D.) Rung

43. Heeling from which location can result in an eye injury if the fire fighter looks up while his or her partner descends? p. 388-389

*A.) Under the ladder
B.) Leeward side of the ladder
C.) In front of the ladder
D.) Windward side of the ladder

44. What is the maximum working height of an aerial ladder? p. 359

*A.) 137 feet (41 m)
B.) 100 feet (30 m)
C.) 121 feet (36 m)
D.) 50 feet (15 m)

45. How many fire fighters should be working on each section of an extension ladder at a time? p. 368

A.) Two
B.) None
*C.) One
D.) Three

46. What does the two-fire fighter beam raise begin with? p. 382

*A.) Shoulder carry
B.) Angled carry
C.) Flat carry
D.) Waist carry

47. What is the responsibility of the third fire fighter when performing the three-fire fighter rung raise? p. 387

A.) Assist in butting the ladder
B.) Places the staypoles in the ground
*C.) Assist with hand-over-hand raising
D.) Ensures overhead clearance

48. What is the minimum frequency that ground ladders must be visually inspected? p. 363

*A.) Monthly
B.) Weekly
C.) Quarterly
D.) Daily

49. What should be done if a ladder is too heavy for you to maneuver? p. 366

A.) Use a pulley system
B.) Use a different ladder
*C.) Ask for help
D.) Move it slowly

50. What is used to stabilized the ladder when it is being heeled? p. 367

A.) Ladder's weight
B.) Ladder's height
C.) Fire fighter's height
*D.) Fire fighter's weight

51. Which is **NOT** a correct statement about cleaning a ladder? p. 364

A.) Clean it regularly to remove road grime
*B.) Allow it to air dry on the apparatus
C.) Use a soft-bristle brush and water
D.) Remove tar deposits with a safety solvent

52. What is the first step in raising a ladder? p. 379

*A.) Selecting the location
B.) Carrying the ladder
C.) Leaning the ladder
D.) Extending the fly section

53. What should be used for support when stepping down one rung while engaging a leg lock on a ladder? p. 393

A.) Hip
B.) Ankle
C.) Knee
*D.) Thigh

54. Which ladder is designed to provide attic access? p. 361

A.) Bangor
*B.) Fresno
C.) Extension
D.) Straight

55. Where should you be looking while climbing a ladder? p. 389

A.) Upward
B.) Downward
C.) To the sides
*D.) Forward

56. Where should the tip of the ladder be placed when positioning it for a rescue? p. 368

A.) On the windward side of the window
B.) On the leeward side of the window
C.) At or slightly above the windowsill
*D.) At or slightly below the windowsill

57. What are used to stabilize the extension ladder as it is raised and lowered? p. 359

A.) Pawl
*B.) Staypole
C.) Pulley
D.) Halyard

58. Who rotates the ladder so that both butts are in contact with the ground when performing the three-fire fighters rung raise? p. 387

A.) Fire fighter on the side
B.) Fire fighter in the middle
C.) Fire fighter at the butt
*D.) Fire fighter at the tip

59. Who is responsible for placing a foot on one beam of the ladder when performing the two-fire fighter rung raise? p. 387

A.) Spotting fire fighter
B.) Fire fighter facing away from the structure
*C.) Fire fighter facing the structure
D.) Both are responsible

60. How many rungs should you place your arm between when performing a one-fire fighter carry of a ladder? p. 371

A.) Three
B.) One
*C.) Two
D.) Four

61. Where should the fire fighter who is stabilizing the ladder during the two-fire fighter beam raise hold the ladder while the fly section is being extended? p. 382

A.) Inside of the two beams
B.) Top side of the rungs
C.) Underside of the rungs
*D.) Outside of the two beams

62. What can happen easily if a ladder is placed on an uneven surface? p. 380

A.) Pull away
*B.) Tip over
C.) Slip
D.) Push up

63. With what frequency should service testing be performed on ladders? p. 366

A.) Bi-annually
B.) Monthly
C.) Quarterly
*D.) Annually

64. How much of the top and bottom of each section of the portable ladder can be painted? p. 364

A.) 24 inches (0.62 m)
B.) 12 inches (0.31 m)
*C.) 18 inches (0.47 m)
D.) 36 inches (0.94 m)

65. How many operators are needed to drive a tillered truck? p. 359

A.) Three
B.) Four
C.) One
*D.) Two

66. Where are ladders often mounted? p. 370

A.) Bottom of the apparatus
B.) Back of the apparatus
*C.) Side of the apparatus
D.) Front of the apparatus

67. Which is **NOT** a correct statement about the three-fire fighter flat carry? p. 374

*A.) All three fire fighters are on the same side
B.) The carry begins with the bed section flat on the ground
C.) All three fire fighters carry the ladder butt end forward
D.) One fire fighter is positioned at the butt end

68. How many more rungs should you step when you have reached the working height and will be using a leg lock on the ladder? p. 393

*A.) One
B.) Two
C.) Three
D.) None

69. How many rungs of the ladder should project above the roofline when inspecting a chimney? p. 396

A.) Seven
B.) Six
*C.) Five
D.) Four

70. Where is the ladder carried when using the two-fire fighter suitcase carry? p. 373-374

A.) On the shoulders
B.) Over the head
*C.) Arm's length
D.) At the chest

71. Which type of knot should be used when tying off the halyard on an extension ladder? p. 382

A.) Becket bend
B.) Half hitch
*C.) Clove hitch
D.) Figure eight

72. What is grabbed by the fire fighters when performing the two-fire fighter suitcase carry? p. 374

*A.) Upper beam
B.) Lower rung
C.) Lower beam
D.) Upper rung

73. What do the fire fighters initially face when performing the three-fire fighter shoulder carry? p. 376

A.) Rungs of the ladder
B.) Butt of the ladder
C.) Away from the ladder
*D.) Tip of the ladder

74. Which type of ladder should be used indoors and in tight spaces? p. 361

A.) Extension
B.) Bangor
*C.) Combination
D.) Roof

75. What in conjunction with the voltage in the line will influence the size of the electromagnetic field surrounding power lines? p. 381

A.) Proximity to a transformer
B.) Pole height
C.) Current usage
*D.) Humidity level

76. What is the approximate proper climbing angle of a ladder? p. 367

*A.) 75 degrees
B.) 90 degrees
C.) 40 degrees
D.) 65 degrees

77. How many fire fighters should heel the ladder while the ladder is leaned into place during the three-fire fighter rung raise? p. 387

A.) Three
*B.) One
C.) Two
D.) Four

78. Where are the three fire fighters positioned when carrying a portable ladder with the three-fire fighter shoulder carry? p. 372

A.) One at the butt and two at the tip
B.) Two at the butt and one at the tip
*C.) One at the butt, one in the middle, and one at the tip
D.) One at the butt and two in the middle

79. To what level should the ladder be raised when performing the one-fire fighter rung raise? p. 381

*A.) Hip
B.) Chest
C.) Shoulder
D.) Knee

80. Which of the following should **NOT** be used to clean a ladder? p. 364

A.) Diluted mild detergent
B.) Safety solution
C.) Water
*D.) Hard-bristle brush

81. Which is an acceptable place to hold onto the ladder while climbing? p. 391

A.) Topside of the dogs
B.) Underside of the dogs
C.) Topside of the beams
*D.) Underside of the beams

82. What must be estimated to select an appropriate ladder? p. 369

*A.) Heights of windows and rooflines
B.) Area of the entire building
C.) Level of backup crews available
D.) Number and location of victims

83. What should the fire fighter on the butt end of the ladder cover while carrying an extension ladder with two fire fighters? p. 372

*A.) Butt spur
B.) Bracket
C.) Halyard
D.) Stop