COURSE SYLLABUS

FPT 165 Fire Protection Systems

CREDIT HOURS: 3.00

CONTACT HOURS: 45.00

COURSE DESCRIPTION:
This course provides information relating to the features of design and operation of fire alarm systems, water-based fire suppression systems, special hazard fire suppression systems, water supply for fire protection, and portable fire extinguishers.

PREREQUISITES:
FPT 155 and FPT 160 and MAT 113

EXPECTED COMPETENCIES:
Upon completion of this course, the student will be familiar with:

1. Respond to an incident, correctly mounting and dismounting an apparatus
2. Set up and operate in work areas at an incident using traffic and scene control devices
3. Don PPE and SCBA for use at an emergency. Doff PPE and SCBA and prepare for reuse.
4. Inspect PPE and SCBA for use at an emergency incident.
5. Clean and sanitize PPE and SCBA.
6. Fill an SCBA cylinder from a cascade system.
8. Operate while in blackout.
9. Don PPE and SCBA for use at an emergency scene.
10. Operate a stored pressure water extinguisher.
11. Operate a carbon dioxide (CO2) extinguisher or dry chemical extinguisher.
12. Tie a bowline knot.
13. Tie a clove hitch knot.
14. Tie a clove hitch knot around an object.
15. Tie a figure eight knot.
16. Tie a figure-eight bend knot.
17. Tie a figure eight knot on a bight.
18. Tie a becket bend knot
19. Tie a half hitch knot.
21. Hoist a pike pole.
22. Hoist a roof ladder.
23. Hoist a dry hoseline.
24. Hoist a charged hose line.
25. Conduct a primary and secondary search.
26. Demonstrate the incline drag.
27. Demonstrate the extremities lift/carry — Two-rescuer method.
28. Illuminate the emergency scene.
29. Force entry through an inward-swinging door — Two-firefighter method.
30. Force entry through an outward-swinging door — Wedge-end method.
31. Force entry using the through-the-lock method.
32. Force entry using the through-the-lock method using the K-tool.
33. Force entry through padlocks.
34. Force entry through a double-hung window.
35. Force entry through a window (glass pane).
36. Clean, inspect, and maintain a ladder.
37. Carry a ladder — One-firefighter low-shoulder method.
38. Carry a ladder — Two-firefighter low-shoulder method.
40. Tie the halyard.
41. Raise a ladder — One-firefighter method.
42. Raise a ladder — Two-firefighter flat raise.
43. Raise a ladder — Two-firefighter beam raise.
44. Deploy a roof ladder — One-firefighter method.
45. Leg lock on a ground ladder.
46. Assist a conscious victim down a ground ladder.
47. Remove an unconscious victim down a ground ladder.
48. Ventilate a pitched roof.
49. Ventilate a structure using mechanical positive-pressure ventilation.
50. Ventilate a structure using horizontal hydraulic ventilation.
51. Operate a hydrant.
52. Make soft-sleeve and hard-suction hydrant connections.
53. Inspect and maintain hose.
54. Make a straight hose roll.
55. Make a donut hose roll.
56. Couple a hose.
57. Uncouple a hose.
58. Make the accordion hose load.
59. Make the pre-connected flat hose load.
60. Make the triple layer hose load.
61. Connect to a hydrant using a forward lay.
62. Advance the preconnected flat hose load.
63. Advance the triple layer hose load.
64. Advance hose — Shoulder-load method.
65. Advance a line into a structure.
66. Advance a line up and down an interior stairway.
67. Extend a hose line.
68. Operate a charged attack line from a ladder.
69. Handle a large sized hose line — one-firefighter.
70. Operate a solid-stream nozzle.
71. Operate a fog-stream nozzle.
72. Deploy and operate a master stream device.
73. Select the proper nozzle and hose for given fire attack situation.
74. Attack a passenger vehicle fire.
75. Operate a sprinkler system control valve.
76. Manually stop the flow of water from a sprinkler.
77. Connect hoseline to a sprinkler system FDC.
78. Fold a salvage cover for a one-firefighter spread.
79. Spread a folded salvage cover — One-firefighter method.
80. Construct a water chute with pike poles.
81. Use a portable radio for routine and emergency traffic.
82. Obtain information about a hazardous material using the *Emergency Response Guide (ERG).*
83. Perform emergency decontamination.
84. Perform defensive control functions – Absorption.
85. Perform defensive control functions – Diking.
86. Perform defensive control functions – Retention.

**ASSESSMENT METHODS:**
Student performance may be assessed by examination, quizzes, case studies, oral conversation, group discussion, oral presentations. The instructor reserves the option to employ one or more of these assessment methods during the course.

**GRADING SCALE:**
90%-100% = A
80%-89.9% = B
70%-79.9% = C
60%-69.9% = D
<60% = E