

Springdale Fire Department Probationary Training Program Study Guide

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**Module 10 has no additional research questions

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Explanatory Material

This guide will direct your study of appropriate electronic and print media sources of information necessary for successful program completion. The intent is for you to research and answer every question in each module providing a reference to the specific location (eg. page number or policy number) of the answer provided. Looking up answers will allow for a review of fundamental requisite firefighter knowledge and an introduction to Springdale specific policy, practice and procedure.

You may elect to work ahead in answering questions but be certain to spend enough time reviewing completed questions for each module. The questions in this study guide will be used to test your knowledge at any time during the program. To obtain the highest possible scores a thorough understanding of the answers, how they are applied in the Springdale Fire Department and additional related information may be required.

The following is a list of resources that you will need to access in order to complete this study guide:

Fundamentals of Firefighter Skills text book (FFFS)
City of Springdale street map
SFD Policies, Procedures and Forms
City of Springdale Personnel and Procedures Manual
Protective Equipment Manual
Tools and Appliance Manual
Bullard T3 Max operating instructions or instructional video
IFSTA Pumping Apparatus Driver/Operator Handbook
F-500 Micelle Encapsulator informational slideshow
Q Rae Plus Owner's Manual
IFSTA Aerial Apparatus Driver/Operator Handbook
Pierce Aerial Operator's Manual
Sutphen Aerial Manual

The Captain assigned and other crew members will assist you in locating and using these resources. Many are accessible over the internet from home or work. Others may be issued to you by the Training Division. Most of the print material will be available in your assigned station's library or from the department's training library.

Within each module questions are grouped under a heading indicating the most appropriate reference.

At the conclusion of the program you may retain this study guide for future reference.

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Layout of the City of Springdale

The Layout of the city reflects the guidance provided by grid maps of Springdale. Members of the department should be aware that there are several areas of the city where this description does not apply. In all cases defer to maps provided in all response vehicles and apparatus.

The City of Springdale is laid out in a grid with the East-West axis being a line following Emma Avenue and extending indefinitely. The North-South axis is formed by Lowell Road and Mill Street north of Emma and Holcomb and Turner Streets south of Emma.

Roadways that cross the East-West axis are designated as streets (north and south) as in North Thompson Street. Roadways that cross the North-South axis are designated as avenues (east and west) as in West Huntsville Avenue. Addresses begin with the 100 Block and increase as they get further from an axis. The city is interspersed with various other roadway designations such as road, lane, circle or place (among others). Addresses on these roadways reflect the street and avenue directions they are similar to.

Addresses on the East and South sides of each roadway are odd numbers.
Addresses on the West and North sides of each roadway are even numbers.

All probationary firefighters must understand this layout and know the “hundred-block” breaks in the following lists. Each list contains roads in a given direction from either Emma extended (north and south) or Turner (east and west).

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North

<u>Block</u>		<u>Road Name</u>
100	N.	Emma Avenue
500	N.	Huntsville Avenue
900	N.	Elm Springs Road
1300	N.	Backus Avenue
1700	N.	Falcon Road
2100	N.	Randal Wobbe Lane
2500	N.	Cooper Drive
2900	N.	County Line Road
3300	N.	Morris Avenue
4100	N.	Stultz
4500	N.	Wagon Wheel Road (Ark. Hwy 264)

South

<u>Block</u>		<u>Road Name</u>
100	S.	Emma Avenue
400	S.	Maple Avenue
800	S.	Watson (west) Caudle (east)
1200	S.	Sunset Avenue
1600	S.	Porter Avenue
2000	S.	Robinson Avenue
2400	S.	Chapman Avenue
2800	S.	Arapaho
3600	S.	Don Tyson Expressway
4000	S.	Black Oak
4400	S.	Shady Grove Road
4800	S.	Lake Road

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East

Block		Road Name
100	E.	Turner Street
600	E.	Powell Street
1200	E.	Old Missouri Road
2100	E.	Moody Lane
2500	E.	Monitor Road
3300	E.	Butterfield Coach Road

West

Block		Road Name
100	W.	Turner Street
900	W.	Thompson Street
1300	W.	Pleasant Street
1600	W.	West End Street
2400	W.	Johnson Road
2800	W.	Gutensohn
3200	W.	Carley Road
4000	W.	40 th Street
4800	W.	48 th Street
5600	W.	56 th Street

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Springdale Fire Department LIFEPAK® 12

Basic Orientation *(pg 2-4 thru 2-6)*

___ Turn LIFEPAK ON

Locate:

___ **ADVISORY** switch/Button

___ **ANALYSE** switch/Button

___ **SHOCK** switch/Button

___ **ENERGY SELECT, CHARGE, SHOCK, SYNC** switch/Button (require paramedic order)

___ **Pacer** switches/Buttons (require paramedic order)

___ **ALARMS** switch/Button

Obtains Vitals *(pg 3-17 thru 3-32)*

___ Connects **NIBP** tubing

___ Select the appropriate sized cuff and apply snugly to the extremity

___ Press **NIBP** button

___ Cancel measurement and deflate cuff by pressing **NIBP** button again

___ Connect SpO2 cable to monitor

___ Attach SpO2 sensor to cable and to patient

___ Observe Pulse bar (verbalize possible corrective actions)

___ Connect CO2 filterline to CO2 connector (must be first)

___ Connect to patient (nasal and ET tube)

___ Verify waveform on monitor

Performs 12 Lead ECG *(pg 3-2 thru 3-16)*

___ Connect limb leads and precordial leads into the main cable

___ Insert the cable connector into the ECG connector on the monitor

___ Preps skin as indicated

___ Attaches four "Limb Leads"

___ Attaches six "Precordial Leads"

___ Press **12 LEAD**

___ Enter Patient Age

___ Demonstrate override procedure if excess patient movement or signal noise

___ Change ECG **LEAD** display

___ Change ECG **SIZE**

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Comprehends AED (pg 4-4 thru 4-10)

- ___ Recognizes need for AED (apneic and pulseless)
- ___ Presses **ON**
- ___ Attaches QUIK-COMBO pads
- ___ Presses **ADVISORY** (CPSS-Continuous Patient Surveillance System)
- ___ Presses **ANALYZE** (activates SAS-Shock Advisory System)
- ___ Assures “**all clear**” (no contact, *head clear, feet clear, I’m clear*) to shock
- ___ Delivers (safely) defibrillation by depressing **SHOCK** button (as indicated)
- ___ Disarms defibrillator
- ___ Comprehends disarm in 60 seconds (automatic)

Comprehends User Controls (pg 2-7 thru 2-170)

- ___ Activates and silences **ALARMS**
- ___ Accesses **OPTIONS** menu
 - a. Enters patient name (FN and LN)
 - b. Enters patient sex and age
 - c. Selects and prints patient report
 - e. Adjusts Alarm Volume
- ___ Accesses **EVENT** menu
- ___ Selects specified events (time-stamp)
- ___ Describes necessity of logging critical events
 - a. Logs Intubation
 - b. CPR
 - c. Drug administration
- ___ Demonstrates **Home** Screen returns to default menu
- ___ Prints a **CODE SUMMARY**

Routine Maintenance Procedures

- ___ Identifies Battery Condition
- ___ Replaces Battery
- ___ Replaces Paper
- ___ Synchronizes Monitor Time with Dispatch

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15. When using bolt cutters to cut through a wire fence, where should the cut be made and why?

16. How should you pull ceiling with a pike pole to help prevent the ceiling from falling on your head?

17. What are four specific examples of uses for the Halligan bar?

18. How may the fork end of a Halligan be used to force entry past a padlock?

19. A Halligan has a fork on one end; what are the other two working points called at the other end of the tool?

20. In addition to cutting, what can a flat-head axe be used for that a pick-head axe cannot?

21. In what condition should the fuel tanks on power tools be left when not in use?

22. What is the recommended minimum pressure, in psi, for water coming from a fire hydrant?

23. What is the term for the large discharge opening on a fire hydrant?

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24. What is a quick way to determine whether a dry-barrel hydrant is still draining, prior to replacing the discharge outlet cap?

25. When would a dry-barrel hydrant be required?

26. What should fire fighters do to avoid water hammer?

27. When should the fire fighter attaching hose to the hydrant charge the supply line?

28. What type of valve is carried in SFD hydrant bags?

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Module 2

SFD Policy Volume 1

29. If reasoning with an abusive or threatening person on scene fails to effectively reduce or remove the threatening behavior, what steps are SFD personnel to take?
30. What are the “red car” unit designations for radio traffic and to whom are the units assigned (title, Name, Position)?

SFD Policy Volume 2

31. What are the six types of incidents personnel may respond to when off duty without a specific request for an off-duty response by Incident Command?
32. A unit operating to the east of the city should do what to ensure effective radio communications are maintained?
33. What is meant by the benchmark radio phrase “all clear”?
34. What other information, besides the benchmark radio phrase “transporting”, is to be given to Dispatch when a squad beginning to transport a patient or patients to the hospital?
35. What benchmark radio phrase is used when a firefighter is lost, missing, trapped, injured, and needing immediate rescue?

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44. What should be done at nighttime roadway operations to avoid impairing the vision of approaching motorists?

45. A reflective safety vest should be worn during all roadway operation activities except for what?

46. How should squads be positioned at roadway operations?

47. How should personnel call for immediate police assistance during a confrontational situation where a significant physical threat to their safety is present and the situation may be intensified if those involved are aware police have been called?

48. Under what two circumstances may you move a fire fatality victim other than when ordered to do so by the Incident Commander, Fire Marshal, Operations Sector Chief Officer, a CID officer, or the Coroner?

49. In what two hose load configurations are 2 ½" attack lines carried on SFD apparatus?

50. What is required of Squad 4 when Squad 1 and Squad 5 are out of service simultaneously?

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51. When SFD has two squads transporting patients outside the city due to Northwest Medical Center being on “divert” where are the remaining squads to transport any patient they may have?

52. According to SFD Procedures, what is the definition of an outdated EMS supply such as IV fluids, medications, or sterile items?

53. What is to be done when a squad compartment is found to have missing inventory but the needed supplies are out of stock at the Station 1 supply room?

54. What response mode are squads to use when assigned to EMS standby at a structure fire in a surrounding fire department’s area?

55. In what two situations may squad crews on EMS standby at a fire scene outside the city engage in actual fire fighting activities?

Protective Equipment Manual

56. Explain the proper inspection and maintenance procedure for SFD PPE

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Probationary Training Program Study Guide

57. Explain SCBA malfunction “Emergency” procedures.

Fundamentals of Firefighter Skills

58. What is the term for a two-way radio that is permanently mounted in a vehicle?

Tools and Appliance Manual

59. What make and model of Thermal Imaging Camera is carried on SFD apparatus?

60. Describe the two operating modes of the Bullard T3 Max

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68. How is the Class A uniform brass compliment to be positioned on the shirt?

69. What items are approved to be purchased from uniform allowances?

70. What part of the uniform may be worn off duty, independent of the rest of the uniform?

71. How are SFD units to be secured when unsupervised and not on SFD property or an emergency scene?

72. What steps are personnel to take when they receive a request for another department member's phone number?

73. When must employees returning to unrestricted duty after an illness or injury be evaluated by a fire department physician?

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SFD Policy Volume 5

74. What information is to be placed on the red paper tag that personnel are to affix to defective small equipment which has no inventory record in Firehouse software?
75. What are the minimum oxygen cylinder pressures that may be reached for portable and squad on-board cylinders before the cylinder must be refilled or exchanged.
76. What is the maximum discharge pressure that the pump should be subjected to during the weekly pump check?
77. What is the maximum acceptable difference in readings between individual discharge gauges and the master discharge gauge during weekly pump checks?
78. When entering daily vehicle and equipment checks into Firehouse software what is the proper entry in the “Priority” field?

City of Springdale Personnel Manual

79. How much notice is required to be given to an employee before their privately owned property can be searched when it is in a city owned locker?
80. According to the City of Springdale Personnel and Procedures Manual what is the definition of harassment?

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81. It is prohibited to consume alcohol while on duty or to have alcohol on city property. In addition it is prohibited for a firefighter to report for duty with a blood alcohol level of what amount?
82. What three activities are expressly prohibited on the city communications systems (phone, email, etc)?

Fundamentals of Firefighter Skills

83. What type of valve is used in a gated wye?
84. How many male and female fittings are there on a gated wye?
85. What do the stops do on an extension ladder?
86. Can a free-hanging roof ladder, not on a roof but hanging just from its hooks, support the weight of fire fighters?
87. What is another hazard associated with raising a ladder and having it hit something, other than the electrical hazard of it hitting power lines?
88. What is the weight limit, in pounds, that most portable ladders can support?
89. When a roof ladder is being carried, which end should be facing forward if it matters?

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Probationary Training Program Study Guide

90. What is the danger if the butt of a ladder is placed too close to the side of the building and people climb it?

91. What area is the first search priority?

92. Adults who try to escape a fire on their own are often found in one of two locations. What are they?

93. What is the rule about the point of exit when doing a primary search of a room?

94. If fire fighters become disoriented and must rely on the hose line to find their way out, how can the couplings help?

95. All ladder rescues should be performed with a certain number of fire fighters whenever possible. How many?

96. When a certain kind of firefighting attack is successful, the fire can be controlled with the least amount of property damage. What kind of attack is this?

97. How can the practice of having one team of fire fighters conducting offensive operations and another team of fire fighters conducting defensive operations on the same building at the same time be characterized?

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98. What is one advantage to a straight stream over a fog stream?
99. What is a combination fire attack a combination of?
100. What is the objective of an indirect fire attack?
101. What is one indication during an indirect attack that the ceiling has cooled?
102. Under what circumstances should master stream devices be directed into buildings where fire fighters are operating inside?

Module 4

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City of Springdale Personnel Manual

103. What is the definition of "anniversary date" as pertaining to employees?
104. How is compensation for legal holidays paid to firefighters?
105. FLSA requires 24 hour shift firefighters to receive overtime pay for each hour worked in excess of what?
106. What is the definition of an employee who is eligible for receiving a sick leave bonus?
107. What is the maximum amount of pay any employee can be paid as a sick leave bonus?
108. Until the beginning of the 12th year of service 24 hour shift firefighters accrue how many shifts of vacation annually?
109. At what rate is sick leave accumulated for firefighters?

Fundamentals of Firefighter Skills

110. Before beginning any forcible entry, what reminder phrase should fire fighters keep in mind?

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111. What is one kind of steel that has been specially treated to resist cutting by normal means?
112. What kind of tool is actually a small hydraulic spreader operated by a hand-powered pump?
113. To force entry into an outward-swinging door, where is the adz end of a Halligan bar applied?
114. What is the quickest way to force entry through a security roll-up door?

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Module 5

SFD Policy Volume 5

115. When performing an annual pump service test what are the three pump flows and time durations that must be achieved for the pump to pass the test?
116. When equipment is found to be missing on a SFD unit what must be done in addition to making note of the missing equipment on the daily/weekly check sheet and making note of it in the daily/weekly check entry in Firehouse?
117. Is it necessary to enter more than one maintenance request in Firehouse when multiple problems are discovered on a SFD unit at the same time?

Tools and Appliance Manual

118. How can you avoid kickback while using the Partner K950 saw?
119. The Partner K950 saw is certified to operate with what specific fuel?

Fundamentals of Firefighter Skills

120. What is the rule of thumb, if any, relating smoke movement to fire temperature?
121. What potential ventilation hazard do thermopane windows make more likely?

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Probationary Training Program Study Guide

122. What is one problem with using doorways as ventilation openings?
123. What is one disadvantage of positive-pressure fans?
124. When a roof is sounded, what is a positive result indicating that the roof is probably safe?
125. What type of structure, used in roof supports, is composed of relatively small and lightweight components in a series of triangles?
126. What is one ever-present danger during salvage?
127. Where do salvage crews usually begin?
128. During salvage, what should be done with any pictures on the walls?
129. If a nozzle must be left partly open in a structure to prevent freezing in cold temperatures, what technique can help reduce water damage to the structure?
130. If individual sprinkler heads cannot be shut off, what should be done to stop the flow of water?

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131. What should fire fighters take with them if sent to shut off a main sprinkler control valve without the necessary key?

132. Operating a PIV handle is similar to operating:

133. What sort of personal protective equipment, if any, should fire fighters wear during overhaul?

134. Ideally when, relative to the overhaul process, should fire investigators begin their work at a fire scene?

135. What does a thermal imaging device respond to?

136. What should be done with smoldering mattresses to extinguish them during overhaul?

137. Which areas of a wall are usually opened first during overhaul?

138. What is one limitation of inverters?

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139. What are the five guidelines that fire fighters should keep in mind when assisting special rescue team members?
140. What does the FAILURE acronym stand for?
141. At a Technical rescue incident in what control zone does decontamination, if applicable, take place?
142. What is the most common method of establishing the control zones for an emergency incident site?
143. At a Technical rescue incident, atmospheric monitoring is begun, when applicable, during the stabilization process. For what are they monitoring?

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Module 6

Tools and Appliance Manual

144. What is the Jaws of Life brand hydraulic fluid used in SFD tools?
145. What is the maximum spreading force of the ML-16S (Maverick Tool) and maximum spreading distance?
146. Before storage, how do you equalize pressure on any hydraulic tool?
147. What are two ways to maximize Hurst Air Bags lifting height?
148. What is the proper method to clean soiled bags before storage?

Fundamentals of Firefighter Skills

149. How are wildland fuels classified?
150. What type of fuel is usually the main type of fuel present in ground cover fires?
151. Why do compact fuels burn more slowly than less compact fuels?

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Probationary Training Program Study Guide

152. What are the two weather conditions that most influence wildland fires?
153. Relative humidity is the ratio of the amount of water vapor present in the air compared to:
154. What relationship is there, if any, between the relative humidity and the dryness of the vegetative fuels in an area?
155. What effect, if any, does a built barrier, such as a highway, have on a wildland fire?
156. With wind changes, a wildland fire can develop a long, narrow extension that projects out from the head of the fire. What is this extension called?
157. What is the burned area of a wildland fire called?
158. What is the combination hoe and rake tool called?
159. How can an alternative-powered vehicle be identified?
160. What alternate fuel powers some forklifts, mass transit buses, and school buses?

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161. When referring to the left or right side of a vehicle, what is the point of reference?

162. What is the designation for the forward-most posts on a car?

163. What is the term for short lengths of robust timber used to stabilize a vehicle in place?

164. When using rescue lift airbags, boards and plywood must not be placed where:

165. If a windshield must be removed to gain access, what tool is appropriate?

166. What is another term for a dash displacement?

167. To de-energize an airbag, what is the first step of the two-step procedure?

168. During a dash displacement, once a crib has been built to hold the sill in the proper position and prevent the dash from moving, what can then be done?

169. What type of glass is the rear window of a vehicle?

170. Where should rescuers begin their cuts on a windshield?

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Module 7

Fundamentals of Firefighter Skills

171. What does the term “Unity of Command” mean?
172. What is the definition of “Span of Control”?
173. The actual span of control at an incident should depend on what two variables?
174. What are the five major components of an Incident Management System organization?
175. What is the only position in the Incident Management System that must be filled at every incident?
176. What type of command is used when multiple agencies with overlapping jurisdictions or legal responsibilities are involved in the same incident?
177. Which officer would most likely be needed at a major incident to release information to the news media?
178. What officers are designated as Command Staff?

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179. What is an “IAP” and what function does it serve at an incident?
180. What is the difference between a division and a group?
181. If a firefighter is facing side D of a burning building what is the proper designation for an adjacent building to his right?
182. What is the more common and less expensive type of smoke detector?
183. What type of smoke detector is sometimes recommended for installation near cooking appliances and bathrooms to reduce false alarms?
184. What are heat detectors called that are spaced throughout an occupancy with each detector covering a specific floor area?
185. What is the type of heat detector called which activates if the temperature of the surrounding air rises more than a set amount in a given period of time?
186. What does the W stand for in WPIV?
187. Where are the main sprinkler system valves usually installed?

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188. In a pre-action sprinkler system, what else must happen in addition to a head being activated before water will flow?

189. What type of standpipe is intended for fire department use only?

IFSTA Pumping Apparatus Driver/Operator Handbook

190. The procedure for making the pump operational takes place where?

191. What is the next step after the driver/operator exits the cab?

192. Do not allow the incoming pressure from the hydrant to drop below:

193. The water supply for a sprinkler system is designed to supply _____ of the total number of the sprinklers in the system.

F-500 Micelle Encapsulator Slideshow

194. What is the difference in the fire suppression mechanics between AFFF foam and F-500 water additive?

195. How does F-500 act on hydrocarbon molecules?

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Q Rae Plus Owner's Manual

196. What signals does the Q Rae Plus give when operating conditions are outside of acceptable gas levels or normal operating conditions?

197. At what battery voltage does the Q Rae Plus shut itself off?

198. Which sensors are installed in the Q Rae Plus meter?

SFD Policy Manual Volume 5

199. What should you do if your meter requires service?

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Module 8

IFSTA Aerial Apparatus Driver/Operator Handbook

200. When testing brakes stopping distance should not exceed _____ feet when the brakes are applied at 5 mph.
201. As an aerial device is rotated, what happens to the center of gravity?
202. What type of stabilizer extends straight to the side directly away from the chassis, then lowers a jack straight down to the ground?
203. What is the hydraulic pump of an aerial device powered by?
204. How should an aerial device auxiliary pump be operated?
205. Initially, stabilizers should be lowered until what occurs?
206. What is the purpose of the hold-down locks?
207. The tip of an aerial ladder should be placed where in relation to the target?
208. What is associated with the majority of aerial ladder failures?

Pierce and Sutphen Aerial Manuals

209. What is the difference in the way Truck 1 maneuvers and steers when compared with Truck 6?

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Module 9

IFSTA Pumping Apparatus Driver/Operator Handbook

210. What does the attack pumper do in a relay pumping operation?
211. Once a relay is in operation and the water is moving, all pump operators set what to an appropriate level?
212. In a relay operation when pumpers are in sight of each other what can be to communicate between pumpers?
213. In a relay operation which pumper should shut down first?
214. Define Dual Pumping
215. Define Tandem Pumping

IFSTA Aerial Apparatus Driver/Operator Handbook

216. For an aerial apparatus with a fire pump, if both the aerial device and the fire pump are going to be used, which should be engaged first?
217. When should an aerial device waterway be drained?

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Fundamentals of Firefighter Skills

218. Friction loss is affected by three factors. What are they?
219. What should fire fighters do to avoid water hammer?
220. In jacketed fire hose, what function does the outer jacket serve?
221. What is the indicator notch on hose couplings that lines up when the threads are lined up to engage properly?
222. Generally speaking, how many gallons per minute does a 2 ½" fire hose line flow?
223. What is the design function of hard suction hose?
224. What is it called when an engine secures hose to a hydrant on the way in and lays supply line until it reaches its attack position?