

SUWANNEE COUNTY FIRE RESCUE

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Applicant / Candidate

Fire Rescue Test Procedures & Study Guide

Revised May 31, 2012

One of the first steps toward becoming an employee for Suwannee County Fire Rescue is taking and successfully scoring high on all components of this perspective employee selection process. This study guide or preparation guide was written specifically to assist you with understanding the components of both the physical and written testing.

The written test will include 60 multiple choice questions on Firefighting and 60 multiple choice questions on EMT/Paramedic skills. You will be expected to complete the test in 2 hours. Questions will test the basic abilities of mathematics, spatial location, reading comprehension, mechanical aptitude, and knowledge of fire standards, BLS and ALS support. Each correct answer on the test is worth 1.66 point's with a maximum obtainable correct answer total of 100 points.

During the interview process, the applicant's qualifications, certifications, and experience will be taken into account and graded accordingly.

MATHEMATICS

The math section of the written test consists of fire-related story problems and formulas. This section Will include: Addition, multiplication, subtraction, division, fractions, fraction-decimal conversion, solving simple algebraic problems, ratios and their concepts, common geometric formulas, and how to make conversions (all conversion factors are provided).

Sample Problem 1

A Firefighter has to search a warehouse that is 60 feet long and 40 feet wide. What is the perimeter of the warehouse?

- A. 100 feet
- B. 150feet
- C. 200 feet
- D. 240 feet

The correct answer is C (200 feet) because the perimeter of the ware house is calculated by adding 60 plus 40 and then multiplying by 2.

Sample Problem 2

A pesticide must be mixed as follows:

- 3 oz. of chemical A
- 4 oz. of chemical B
- 3 cups of water

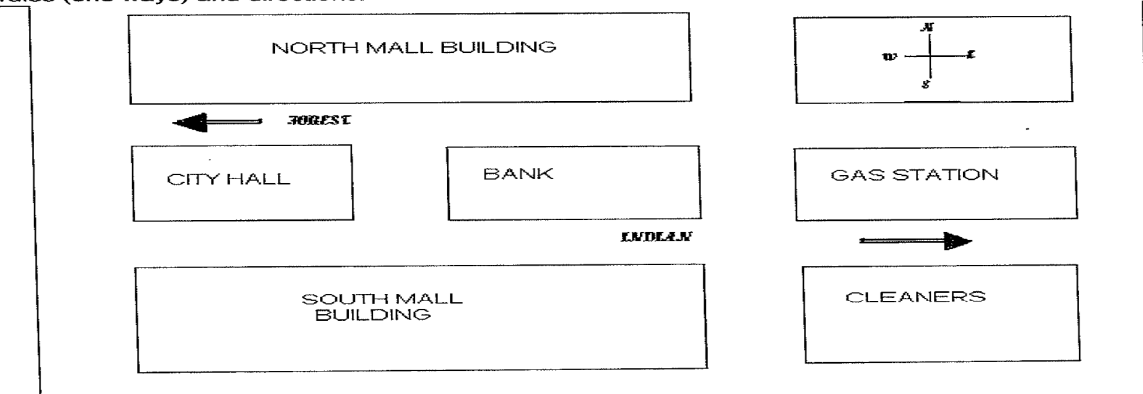
What are the correct amounts of each to use with 18 cups of water?

- A. 15 oz. of chemical A and 22 oz. of chemical B
- B. 16 oz. of chemical A and 24 oz. of chemical B
- C. 18 oz. of chemical A and 20 oz. of chemical B
- D. 18 oz. of chemical A and 24 oz. of chemical B

The correct answer is D. because 18 cups is 6 times 3 cups, so chemical A must be mixed at 6 times the strength. 3 oz. times 6 equals 18 oz. Chemical B must also be mixed at 6 times the strength. 4 oz. times 6 equals 24 oz.

SPATIAL LOCATION

Spatial location measures the applicant's ability to read maps and figure out directions. The applicant should know right turns and left turns, directions of north, south, east, and west, and basic driving rules (one ways) and directions.



You will be questioned on directions of travel, shortest distance routes, and locations referenced from the map above (similar type map).

Sample question would be; if this map represented one square city block, what side of the block would City Hall be on? Answer would be west side (use compass shown at top left for directions).

READING COMPREHENSION

This section of the written test measures how well you understand what you read.

Sample Passage

The behavior of wildland fire is affected by weather. The wind fans the flames into greater intensity and provides fresh air that speeds combustion. Medium and large fires may create their own wind. The amount of recent precipitation, as well as the current relative humidity, also affects fire behavior. Long-term drying of brush produces a fuel that is more combustible, while precipitation determines the moisture of live fuels.

Sample Problem

According to the passage, wind affects the behavior of wildland fire by drying it out and making it more combustible.

- A. True
- B. False

The correct answer for the passage is B (False) because the passage states that the wind fans the flames into greater intensity and provides fresh air that speeds combustion.

MECHANICAL APTITUDE

The mechanical aptitude section measures your mechanical abilities. Mechanical abilities are important to correctly and safely use all tools, hoses and equipment in the fire rescue service.

Sample Problem

The two pulleys above are identical. Since the belt between them is crossed,

- A. The two will move in the same direction
- B. Pulley A will move faster than pulley B
- C. The two pulleys will move in the same direction
- D. The two pulleys will move in opposite directions

BASIC LIFE SUPPORT

You should start a focused exam of a small stable child at the:

- A. Head
- B. Face
- C. Lower leg
- D. Feet and toes

The constant flow of blood through the capillaries is called?

- A. Shock
- B. Blood Pressure
- C. Perfusion
- D. Direct Pressure

The normal respiratory rate for an adult is?

- A. 3-8 per minuet
- B. 8-10 per minuet
- C. 12-20 per minuet
- D. 25-50 per minuet

When treating chemical burns to the eyes, the Fire Rescue Responder should flush the eyes for at least:

- A. 5 minutes.
- B. 10 minutes.
- C. 20 minutes.
- D. 30 minutes.

The stage of labor that begins when the baby enters the birth canal until the baby is expelled is the ___ stage of labor.

- A. First
- B. Second
- C. Third
- D. Fourth

Basic Firefighting Questions / Minimum Standard

Lt. Banks is giving a lecture on the proper procedure when cutting a hole in a roof to provide adequate ventilation. He would like to include the statements listed below in his lecture. These statements have not been listed in the correct order.

- 1) The hole should be located between the joists or rafters. Thus the joists or rafters should never be cut, as they are the main support for the roof.
- 2) Locate the joists by sounding with the axe and noting the area that is solid. A solid sound will denote the location of the joist.
- 3) Upon identifying wood sheathing, the firefighter may begin cutting with the fire axe. The axe should not be swung as a wood cutter would use it, but with short quick strokes.
- 4) Once the joists are located, an adequate size hole at least 4 feet should be marked on the roof with the pick head. The roof covering tar paper should be removed before proceeding with the cutting procedure.

11. The above procedure should be performed in which of the following order?

- A) 1,2,3,4
- B) 2, 1,3,4
- C) 1,2,4,3**
- D) 2, 1,4,3

23. Firefighters have just arrived on the scene of a three-car accident on Highway 1-90. Which of the following would be the first action taken by firefighters?

A) Check for any injuries to the occupants of cars involved in the accident

- B) Immediately call for three or more apparatus to block the flow of traffic so firefighters will not be endangered
- C) Stand by and direct traffic at the scene of the accident until police and ambulances arrive to treat the injured occupants
- D) Immediately contact the alarm office to inform the police department of the accident and ask for their immediate response to the scene

1. At 212 degrees F water expands approximately how many times its original volume?

- a. 1700
- b. 1200
- c. 1000
- d. 800

4. What is the normal concentration of oxygen in ambient air?

- a. 19.9%
- b. 20.9%
- c. 0.204
- d. 0.219

5. Which hazard may need to be mitigated at an MVC?
 - a. Antifreeze spill
 - b. Fix-a-Flat fluid
 - c. Kitty-litter
 - d. Vegetable oil

6. NFPA 1710 has four main purposes. Which of the following answers is not one of the purposes?
 - a. Improve EMS delivery
 - b. Improve methods of fire prevention, extinguishment and fire control
 - c. Decrease amount of time on scene
 - d. Protect firefighters, ems providers, and the public

7. Firefighter A says there are two types of self contained breathing apparatus used by the fire service. They are open circuit and closed circuit. Firefighter B says that he agrees but wanted to add in that closed circuit is used more frequently than open circuit. Who is correct?
 - a. Firefighter A
 - b. Firefighter B
 - c. Both Firefighters
 - d. Neither Firefighter

8. Which of the following knots is not in the figure eight family of knots?
 - a. Figure eight
 - b. Fisherman's knot
 - c. Water knot
 - d. Figure eight on a bight

9. In automobiles what does the acronym SIPS stand for?
 - a. Side impact pressure systems
 - b. Side impact protection system
 - c. Supplemental inverted pressure switch
 - d. Side impact pressure switch

10. Building construction is classified under multiple categories. Type I construction is what?
 - a. Wood frame
 - b. Heavy timber
 - c. Non-combustible or limited combustible
 - d. Fire resistive

No answers were intentionally provided to allow the applicant / candidate to self test their skills and research their answers.

The provided study guide questions are examples and do not reflect exact questions that will be found on the actual test. However, these sample questions do reflect the context and format of the written test and offer the applicant / candidate a guide for study.

Physical Ability/Agility Test

After completing the written test, the applicant will be directed to the physical skills evaluation area. Each applicant will demonstrate spinal immobilization skills, and then load the patient into a rescue unit where they will be given a scenario involving the patient care. The applicant will perform the expected care reflecting his or her level of training. The applicant will be grade on a scale of 0 to 30 on appropriate care with a maximum point total of 30.

Upon completion the applicant will move to the firefighter skills/ physical ability testing grounds. This test will include components of basic physical ability and demands for firefighting. The skill ability test will be fully explained by the proctor prior to testing. Each component of the test will be timed. The applicant will demonstrate proper techniques and regard for safety during the evolutions. Components of the test will include deploying and advancing a charged hose line, fire stream control, donning a SCBA, ladder deployment, rescue drag (150lb simulated) and skill safety.

Applicants are encouraged to bring their own firefighting PPE, if possessed. Suwannee County Fire Rescue will provide a limited amount of firefighter PPE, in the event the applicant does not have their own. Please be aware that both size and style of the PPE may vary and are limited in availability. A max of 30 points will given for this section.

Note: during all phases of the applicants testing, there will be no disruptive and or unsafe behavior, dishonesty, and or interference with the testing procedures tolerated.

No applicant will be allowed to test without the notarized liability waiver form.