

**STUDY GUIDE
FOR THE
NORTHEAST OHIO REGIONAL
FIREFIGHTER EXAMINATION**

**TO BE ADMINISTERED
ON
SEPTEMBER 29, 2026**

EUCLID ♦ HIGHLAND HEIGHTS ♦ LYNTHURST ♦ MAYFIELD HEIGHTS
MAYFIELD VILLAGE ♦ PEPPER PIKE ♦ SOUTH EUCLID
RICHMOND HEIGHTS ♦ UNIVERSITY HEIGHTS

THIS STUDY GUIDE IS PROVIDED TO EACH PERSON WHO HAS FILED AN APPLICATION TO TAKE THE FIREFIGHTER EXAMINATION. IT IS DESIGNED TO GIVE YOU AN OVERVIEW OF THE TYPES OF QUESTIONS THAT MAY BE ASKED ON THE EXAMINATION AND TO PROVIDE SOME GENERAL INFORMATION ABOUT THE EXAMINATION.

ABOUT THE EXAMINATION

THE EXAMINATION IS DESIGNED TO MEASURE A NUMBER OF DIFFERENT ABILITIES THAT ARE IMPORTANT TO THE POSITION OF FIREFIGHTER. THE EXAMINATION CONSISTS OF 125 MULTIPLE CHOICE QUESTIONS. YOU WILL BE ALLOWED 2 HOURS AND 30 MINUTES TO COMPLETE THE ENTIRE EXAMINATION. IN THIS BOOKLET, THE DIFFERENT SECTIONS OF THE EXAMINATION ARE DESCRIBED AND SAMPLE QUESTIONS FROM EACH SECTION ARE PRESENTED.

HOW TO TAKE AN EXAMINATION

WHEN TAKING AN EXAMINATION, YOU WILL FIND THAT SOME QUESTIONS ARE MORE DIFFICULT THAN OTHERS. TRY TO ANSWER EVERY QUESTION, EVEN IF YOU ARE NOT SURE OF THE CORRECT ANSWER. THERE IS NO PENALTY FOR INCORRECT ANSWERS OR GUESSING. IT IS TO YOUR ADVANTAGE TO ANSWER EVERY QUESTION. DO NOT SPEND TOO MUCH TIME ON ANY ONE QUESTION. IF A QUESTION IS DIFFICULT, MARK AN ANSWER THAT YOU THINK IS CORRECT. WHEN YOU HAVE FINISHED THE EXAMINATION, AND IF YOU HAVE TIME, YOU CAN GO BACK AND REVIEW QUESTIONS ABOUT WHICH YOU WERE UNSURE.

USING THE ANSWER SHEET

WHEN TAKING THE EXAMINATION, YOU WILL RECORD YOUR ANSWERS ON A SEPARATE SHEET AND NOT DIRECTLY IN THE TEST BOOKLET. SINCE THE ANSWER SHEET WILL BE SCORED BY COMPUTER, IT IS IMPORTANT THAT YOU USE ONLY THE PENCIL WHICH WILL BE PROVIDED TO YOU AT THE TEST SITE. CHECK FREQUENTLY TO SEE THAT THE NUMBER NEXT TO THE ANSWER SPACE IS THE SAME AS THE NUMBER OF THE QUESTION YOU ARE WORKING ON. SOME OF THE QUESTIONS MAY HAVE THREE POSSIBLE ANSWERS (A, B AND C), OTHERS MAY HAVE FOUR POSSIBLE ANSWERS (A, B, C AND D) AND OTHERS MAY HAVE FIVE POSSIBLE ANSWERS (A, B, C, D AND E).

THE ANSWER SHEET (AND ALL OTHER EXAMINATION MATERIALS, HAVE BEEN PRE-CODED WITH AN IDENTIFICATION NUMBER. THIS NUMBER SHOULD MATCH ON ALL OF THE MATERIALS WHICH YOU RECEIVE AT THE EXAMINATION. DO NOT FILL IN ANY OF THE OTHER CODED SECTIONS OF THE ANSWER SHEET AND DO NOT PLACE YOUR NAME ON THE ANSWER SHEET. THE ONLY MARKS YOU WILL MAKE ON YOUR ANSWER SHEET WILL BE THE ANSWERS TO THE QUESTIONS.

Section One – UNDERSTANDING WRITTEN INFORMATION

This section of the examination is designed to measure your ability to read and understand written material. You will be presented with a passage or written material followed by a series of questions to be answered based on the information included in the written material.

The following is a brief section of written material and a series of questions similar to those found in this section of the examination. The written material may be longer and more detailed on the actual examination and the series of questions may be more extensive.

During search operations, the first step is usually to rescue victims who can be seen or heard, or those whose exact location is known. Disorganized or careless search must be avoided since victims may be underneath rubble or debris. Random movement by rescue personnel could cause injury or death. The best method is to start from the outer edge and work toward the center of the area being searched. Sometimes a trapped or buried victim may be located by calling out or by tapping on pipes. Rescue workers should first call out, and then have a period of silence to listen for a response from victims.

1) Normally, the first victims to be rescued during a search are those who are

- A) unconscious.
- B) trapped under rubble or debris.
- C) easy to see or hear.
- D) injured.

• The correct answer is 'C' and is found in the first sentence of the reading material.

2) The best way to search an area is

- A) around the edges.
- B) from the center to the edge.
- C) from corner to corner.
- D) from the outer edge to the center.

• The correct answer is 'D' and is found in the fourth sentence of the reading material.

3) When attempting to locate victims, rescue workers should

- A) Dig through debris in areas where they think there may be a victim.
- B) Call out and wait a short time for victims to respond.
- C) Search as quickly as possible without regard for safety.
- D) None of the above are correct

• The correct answer is 'B' and is found in the last sentence of the reading material.

Section Two – INTERPERSONAL RELATIONS

This section of the examination is designed to evaluate how you would react in a variety of social situations. It will also measure your ability to understand and react to other people and their problems. You will be presented with a situation and a series of possible reactions. You are to choose the most appropriate response.

The following are examples of the types of questions that may appear in this section of the examination.

- 1) During academy training, you receive a lower grade from your instructor than you feel you deserve. You should
 - A) insist that he change your grade.
 - B) ask the instructor for an explanation.
 - C) ask for another examination so you can show that you know the material well.
 - D) accept the grade and forget the incident.
 - **The most appropriate response is 'B'. It is reasonable to request that the instructor explain how the grade was determined.**
- 2) If you are not sure of the correct method of doing a piece of work assigned to you, you should usually
 - A) work on another assignment.
 - B) ask another employee to do the work.
 - C) do the work as well as you can.
 - D) ask you supervisor for instructions.
 - **The most appropriate response is 'D'. Asking for instructions on appropriate procedure is the most logical alternative presented.**
- 3) When providing information to the public, it is best to
 - A) impress them with your expertise by providing very technical answers.
 - B) answer all questions, even if you are not sure of the correct response.
 - C) refuse to commit yourself to a specific answer and only provide vague responses.
 - D) answer questions to the best of your ability and not attempt to answer questions that you have no knowledge about.
 - **The most appropriate response is 'D'. It is best to be honest and direct while answering questions while being careful not to offer information that may not be accurate.**
- 4) Which of the following is most important in order for men and women to work together effectively?
 - A) Mutual Respect
 - B) Competitiveness
 - C) Self confidence
 - D) Collaboration
 - **The most appropriate response is 'A'. While other traits may be helpful, it is most important for co-workers to respect each other while working together.**

Section Three – MATHEMATICAL COMPUTATIONS

This section of the examination is designed to measure your general mathematical ability. In addition to basic mathematical processes the problems included in this section may require computations including whole numbers, fractions, decimals, percentages and equations. Also included may be items that require problem solving and deductive reasoning.

The following are examples of questions similar to those that may appear in this section of the examination.

- 1) A fire hydrant discharges 1,250 gallons of water per minute. How many gallons will be discharged in one hour?
- A) 37,500
 - B) 75,000
 - C) 50,000
 - D) None of the above are correct

- **The correct answer is 'B' since $1,250 \text{ gallons} \times 60 \text{ (minutes)} = 75,000$.**

- 2) Each fire station is stocked with 1200 feet of $\frac{1}{2}$ inch rope. Normally, $\frac{1}{3}$ of the rope needs to be replaced every 6 months. At this rate, how many feet of rope would be replaced each year?
- A) 900
 - B) 400
 - C) 800
 - D) None of the above are correct

- **The correct answer is 'C' since $\frac{1}{3}$ of the rope (400 feet) needs to be replaced every 6 months, then $\frac{2}{3}$ (800 feet) needs to be replaced in a year.**

- 3) A connected hose line is made up of eleven 50-foot sections. If four of these sections are removed, how long is the remaining hose line?
- A) 550 feet
 - B) 200 feet
 - C) 350 feet
 - D) None of the above are correct

- **The correct answer is 'C' since the connected hose line is made up of 11 sections of 50 feet each or 550 feet. Removing four sections or 200 feet would leave 7 sections and $7 \times 50 = 350$.**

$$550' (11 \text{ sections of } 50') - 200' (4 \text{ sections of } 50') = 350' (7 \text{ sections of } 50' \text{ each})$$

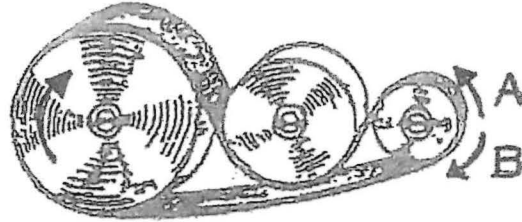
Section Four – MECHANICAL REASONING

This section of the examination is designed to measure your basic mechanical aptitude. You will be presented with a drawing of a mechanical device, situation, etc., followed by a question to be answered based on the information presented in the drawing.

The following are examples of the types of questions that may appear in this section of the examination.

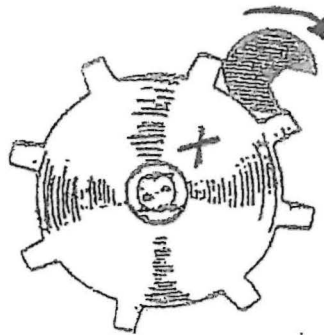
- 1) If the large wheel moves in the direction shown, in which direction will the small wheel move?

(If neither, mark 'C')



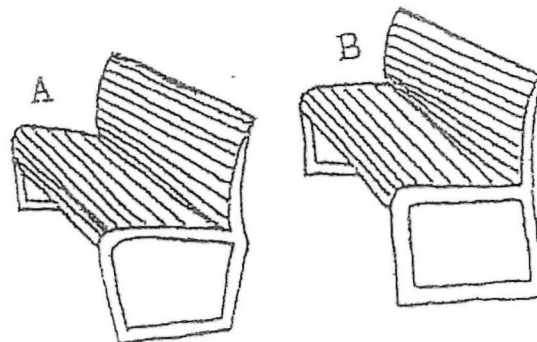
- 2) When the small wheel moves in the direction shown, wheel X will move

- A) steadily to the right.
- B) steadily to the left.
- C) by jerks to the left.



- 3) Which bench can tip over backwards more easily?

(If no difference, mark 'C')



Section Five – ANALYSIS AND CONCLUSIONS

This section of the examination is designed to measure your ability to think clearly and logically, to interpret information and to reach a conclusion based on limited information. You will be presented with a statement followed by a series of conclusions. Based on the information provided in the statement, you are to choose the best conclusion from among those listed.

The following are examples of the type of question that may appear in this section of the examination.

- 1) "All firefighters in the United States are courageous for they risk their lives in the line of duty". This statement assumes that
- A) all people who risk their lives could be firefighters.
 - B) firefighters are not courageous.
 - C) people who do not risk their lives are not courageous.
 - D) people who risk their lives are courageous.

• **The correct answer is 'D'.**

- 2) If all the fires this week were classified as Type 1 fires and garage fires are classified as Type 1 fires, then which of the following statements are true?
- A) Some of the fires this week were garage fires.
 - B) None of the fires this week were garage fires.
 - C) There may or may not have been some garage fires this week.
 - D) All fires this week were garage fires.

• **The correct answer is 'C'.**

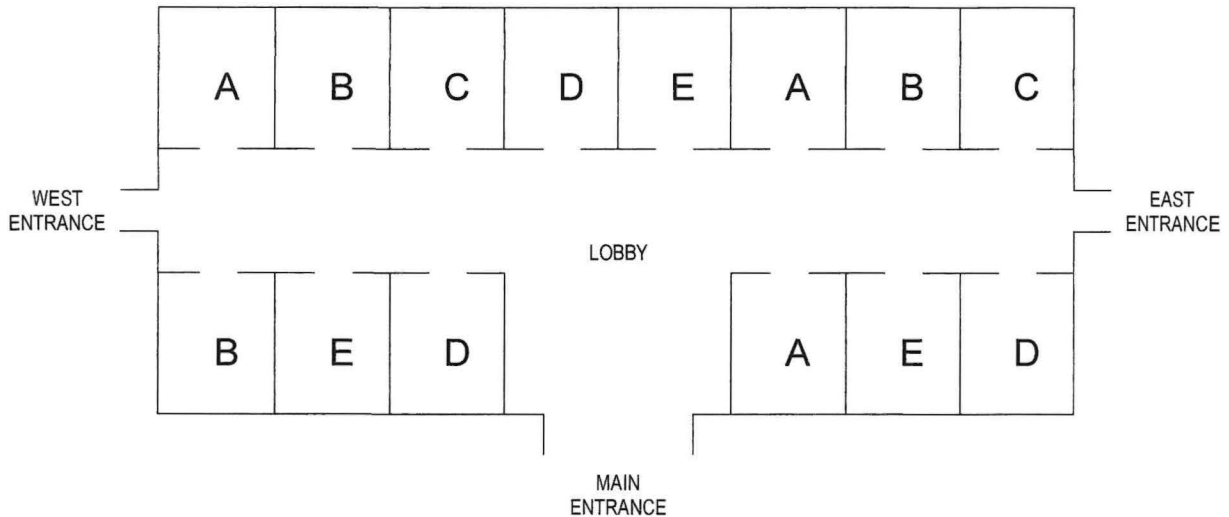
- 3) Station 3 and Station 14 each have fewer firefighters assigned than Station 7. Station 4 has fewer firefighters than Station 14 but more than Station 3. Which Station is the largest of these four Stations?
- A) Station 3
 - B) Station 4
 - C) Station 7
 - D) Station 14

• **The correct answer is 'C'.**

Section Six – FOLLOWING WRITTEN INSTRUCTIONS

This section of the examination is designed to measure your ability to follow a detailed set of instructions. You will be presented with a diagram of a building including a hypothetical floor plan and asked to follow a series of directions to reach a designated point in the building.

The following is an example of the type of diagram and questions that may appear in this section of the examination.



- 1) Use the main entrance to enter the lobby and turn left down the hallway. Enter the third door on the left into the target room. Enter the letter identifying the target room on the answer sheet.
 - **The correct answer is 'B'. As you proceeded down the hallway, you passed the doors to rooms 'D' and 'E' before entering the target room.**

- 2) Enter the east entrance to the building. Proceed down the hallway and enter the fourth door on your right. Break a hole in the east wall of that room and enter the target room. Enter the letter identifying the target room on the answer sheet.
 - **The correct answer is 'A'. As you proceeded down the hallway, you passed the doors of room 'C', 'B' and 'A' before entering room 'E'. You broke through the east wall of that room and entered the target room 'A'.**