



Fayetteville Fire Department

Physical Ability Test

Candidate Orientation Guide

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Agility Test

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Overview

This Fayetteville Fire Department test was designed based on the need for consistent test administration that is fair to all candidates. The test consists of 7 separate events. The test is a sequence of events that requires the candidate to progress from event to event in a continuous manner. Successful completion of the test allows the department to obtain a pool of trainable candidates who are physically able to perform essential job tasks on emergency incidents.

This is a Pass/Fail test with a maximum total time of 10 minutes and 20 seconds.

In these events a 50lb weight vest is worn for the entire duration. This weight vest simulates the weight of self-contained breathing apparatus (SCBA) and firefighter turnout gear.

Candidates are encouraged to wear athletic type clothing. Footwear with no open heel or toe is required. Watches and loose or restrictive jewelry are not permitted. Additionally, candidates must wear a hard hat/helmet with a chin strap and work gloves, both of which are provided on site, by the department.

All props were designed to obtain the necessary information regarding your physical ability. The tools and equipment were chosen to provide the highest level of consistency, safety and validity in measuring your physical abilities. A schematic drawing of the test is included in this orientation material; however, the course layout may vary in order to conform to the fire departments test area. However, the events are always the same.

The events are placed in a sequence that simulates their use in a fire scene. The test allows for a walk/cool down period in between each event. To provide the highest level of safety, no running is allowed in between events. The walk allows the candidate approximately 20 seconds to recover and regroup before each event.

To ensure accuracy, two stopwatches are used for each candidate. One stopwatch is designated as the official test time stopwatch. The second is designated as the backup stopwatch. In the event of failure on the part of the official stopwatch, the time on the backup stopwatch is used. The total allowable time for the completion of the entire test is 10 minutes and 20 seconds. If the time elapses prior to completion of the test, the test is concluded and the candidate fails the test.

An assigned test proctor will escort each candidate for the duration of the test and guide them from event to event.

The Fayetteville Fire E/M Agility Test consists of the following sequential events:

Stair Climb

Search

Hose Drag and Pull

Forcible Entry Simulator

Ladder Extension

Ceiling Breach and Pull

Rescue

STEP 1: Stair Climb

Equipment

Hi Rise pack (hose bundle) consisting of 50 ft of 1 ¾ hose line, secured into a carrying bundle.

Purpose

This event is designed to simulate the critical task of climbing stairs in full protective clothing while carrying a high-rise pack (hose bundle). This event challenges the candidates' aerobic capacity, lower body muscular endurance and ability to balance. In addition to the aerobic energy system, the following muscle groups are affected: Quadriceps, hamstrings, glutes, calves, lower back stabilizers

Event

For this event, a hi-rise pack (hose bundle) will be placed on the candidates shoulder. The candidate must carry the hi-rise pack for the duration of two complete stair ascensions during this event only.

The timing of the test begins after the hi-rise pack is placed over the candidates shoulder and the proctor calls out "START".

Climb the stairs to the 4th floor and back down to the 1st floor two times. After the 2nd time down, place the hi-rise pack where it was picked up, Then, Climb the stairs to the 4th floor and back down to the 3rd floor, ending at the attic entrance.

Failures

During the climbs the candidate must use each step. Skipping steps, climbing 2 or 3 at a time is not permitted.

Only 2 warnings are given. The third infraction constitutes a failure, the test is stopped and the candidate fails the test.

NOTE: For safety reasons, the handrail can be used as much as needed by the candidate.

STEP 2: Search

Equipment

Search rope/Floor padding

Bell/buzzer

Purpose

This event is designed to simulate the critical task of searching for a fire victim with limited visibility in an unpredictable area.

This event challenges the candidate's aerobic capacity, upper body strength and endurance, anaerobic endurance and kinesthetic awareness. In addition to the aerobic energy system, the following muscle groups are affected: chest, shoulder, triceps, quadriceps, abdominals and lower back.

Event

Enter the attic and crawl, following a predetermined and indicated path. The candidate will crawl down the center of the attic to the other end (35 feet), and back to the entrance (35 feet), for a total of a 70 foot crawl with limited visibility. When the candidate reaches the far end of the attic, they will ring the bell to notify proctors that they have reached the wall. They will then turn around and crawl back.

Exit the attic and return to the 1st floor via the stairs used in STEP 1

Failures

The candidate requests assistance and/or requires assistance out of the limited visibility area, requiring lights and/or guidance: the test is stopped and the candidate fails the test.

STEP 3: Hose Drag and Pull

Equipment

200 feet fire hose, no larger than an average hand line.
Automatic fog nozzle with pistol grip

The hose line will be marked at 8 feet past the nozzle to indicate the maximum amount of hose the candidate is permitted to drape across the shoulder or chest. The hose is also marked at 50 feet past the nozzle to indicate the amount of hose that the candidate must pull into the marked boundary box before completing the test.

Purpose

This event is designed to simulate the critical tasks of dragging an uncharged hose line from the fire apparatus to the fire occupancy and pulling an uncharged line around obstacles while remaining stationary. This event challenges the candidates aerobic capacity, lower body muscular strength and endurance, upper back muscular strength and endurance, grip strength and endurance and anaerobic endurance. In addition to aerobic and anaerobic energy systems, the following muscle groups are affected: quadriceps, hamstrings, glutes, calves, lower back stabilizers, biceps, deltoids, upper back and muscles of the forearm and hand.

Event

Grasp the automatic nozzle, attached to 200 ft. of hose. Place the hose line over the shoulder or across the chest, not exceeding the 8 ft. mark. Drag the hose to a prepositioned turnbuckle, make a 90 degree turn around the turnbuckle, while staying within the boundary area and continue to the marked box ahead. Stop within the marked 5x5 foot area, drop to at least one knee and pull the hose line until the 50 foot mark is across the finish line. During the hose pull, the candidate must keep at least one knee in contact with the ground and both knees must remain within the marked boundary lines.

Failures

During the hose drag if the candidate fails to go around the turnbuckle or goes outside of the marked path, the test is stopped and the candidate fails the test.

During the hose pull the candidate is warned once if the knees go outside the marked boundary. The second infraction constitutes a failure, the test is stopped and the candidate fails the test.

STEP 4: Forcible Entry Simulator

Equipment

Calibrated Forcible Entry Simulator
10lb dead blow sledge

Purpose

This event simulates the critical task of using force to open a locked door or other forms of forced entry through a variety of barriers. This event challenges the candidate's aerobic capacity, upper body muscular strength and endurance, balance, grip strength and endurance and anaerobic endurance. In addition to aerobic and anaerobic energy systems the following muscle groups are affected: quadriceps, glutes, triceps, upper back, trapezius and muscles of the forearm and hand.

Event

While standing to one side of the simulator, the candidate uses a provided sledge hammer and strikes simulator in the target area until the calibrated amount of force is reached and the simulator indicator activates (a buzz or beeping sound). Once the completion indicator activates, the candidate will place the sledgehammer on the ground in a controlled fashion.

Failures

If the candidate does not maintain control of the sledgehammer and releases it from both hands while swinging, it constitutes a failure, the test is stopped and the candidate fails the test.

STEP 5: Ladder Extension

Equipment

35ft extension ladder with halyard, secured in a vertical position

Purpose

This event is designed to simulate the critical task of extending a ladder to the roof or window. This event challenges the candidate's aerobic capacity, upper body muscular strength, lower body muscular strength, balance, grip strength and anaerobic endurance. In addition to aerobic and anaerobic energy systems, the following muscle groups are affected: biceps, deltoids, upper back, trapezius, muscles of the forearm and hand, glutes, quadriceps and hamstrings

Event

Standing in a marked area, the candidate will extend the fly section hand over hand until it hits the stop. The candidate then lowers the fly section in a controlled fashion to the starting position.

Failures

If the candidate's feet do not remain within marked boundary area, one warning is given. The second infraction constitutes a failure, the test is stopped and the candidate fails the test.

If the candidate fails to maintain control of the ladder in a hand over hand manner or lets the rope halyard slip in an uncontrolled manner, the test is stopped and the candidate fails the test.

STEP 6: Ceiling Breach and Pull

Equipment

Weighted Ceiling breach and pull device

10 foot pike pole

Purpose

This event is designed to simulate the critical task of breaching and pulling down a ceiling to check for fire extension. This event challenges the candidates aerobic capacity, upper and lower body muscular strength and endurance, grip strength and endurance and anaerobic endurance. In addition to aerobic and anaerobic energy systems, the following muscle groups are affected: quadriceps, hamstrings, glutes, abdominals, torso rotators, lower back stabilizers, deltoids, trapezius, triceps, biceps and muscles of the forearm and hand.

Event

The candidate stands within the boundary and retrieves the pike pole from its waiting position. The candidate places the tip of the pole on the marked area of the hinged push/pull device above. The candidate fully pushes up the hinged door in the ceiling with the pike pole four (4) times. The candidate then hooks the pike pole to the push/pull device and fully pulls down four (4) times. Each set consists of four (4) pushes and four (4) pulls. The candidate must complete two sets. The candidate is permitted to stop and if needed adjust the grip on the pike pole. Releasing the grip or hands slipping from the pike pole, without the pike pole falling to the ground, does NOT result in a warning or constitute a failure. The candidate may re-establish a grip and resume the event. If the candidate does not successfully complete a repetition, the proctor calls out "MISS" and the candidate must push or pull the apparatus again to complete the repetition. Once the candidate successfully completes two sets of pushes and pulls, they will set the pike pole back to its original position.

Failures

One warning is given if the candidate drops the pike pole to the ground. If the candidate does drop the pike pole, it must be picked up without proctor assistance and the event is resumed. The second infraction constitutes a failure, the test is stopped and the candidate fails the event.

STEP 7: Rescue

Equipment

185lb mannequin
Mannequin harness

Purpose

This event is designed to simulate the critical task of removing a victim or injured partner from a fire scene. This event challenges the candidates aerobic capacity, upper and lower body muscular strength and endurance, grip strength and endurance and anaerobic endurance. In addition to aerobic and anaerobic energy systems, the following muscle groups are affected: quadriceps, hamstrings, glutes, abdominals, torso rotators, lower back stabilizers, trapezius, deltoids, latissimus dorsi, biceps and muscles of the forearm and hand.

Event

The candidate grasps a 185lb mannequin in a safe manner and drags/carries it 85 feet to the finish line. The candidate may move the mannequin from start to finish in any safe manner they are comfortable. The mannequin may have a pre-positioned harness, grasping handles or other means of grip position available. The candidate may pick the mannequin up with or without these devices. The candidate is permitted to drop and release the mannequin at any time to adjust the grip. The entire mannequin must be dragged/carried across the marked finish line before the total time of the test elapses.

The event and total test time ends when the candidate completely gets the mannequin across the marked finish line as indicated by the proctor who calls out "TIME"

This completes the first timed portion of the test.

Max allowable time: 10 minutes and 20 seconds

Test Forms

You must present valid identification and sign a number of forms before taking the physical agility test. You are provided an opportunity to review a video detailing the agility test and failure points. It is your responsibility to ask questions if you do not understand any parts of the test events or procedures. You are required to complete the waiver and release form. At the conclusion of the test, you must sign the Evaluation Form.

Aerial Climb

1. Each candidate must first successfully complete the timed/sequential portion of the agility test before attempting the aerial climb.
2. Once the candidate has successfully completed the first timed exercise, they will be provided with a form to take to the Aerial Climb. This form must be carried by the candidate to the aerial device and provided to the proctors assigned.
3. Each candidate must wait 5 minutes post agility test before starting the ladder climb. Each candidate will be required to present their passing form when arriving at the aerial device. The ticket will have a time on it. That time is the candidate's ladder climb start time. (Example: The candidate presents a ticket to the crew of T6. The time on it says 10:15am. That candidate must report to the aerial device prior to 10:15, however, cannot start the ladder climb earlier than 10:15am.)

The ticket method insures several things.

1. The candidate has successfully passed the timed/sequential portion of the agility test, which must be done prior to the climb. This is indicated by the initials of the FF or HR representative.
 2. The candidate has waited/rested the required amount of time
 3. Documentation of success or failure upon completion of the ladder climb. This is indicated by the initials of the FF proctoring the climb.
4. The ladder will be set up for the candidate to climb **75 feet high at a 75 degree angle.**
 5. The max allowable time for the candidate to climb/descend the ladder is **5 minutes**. The time for the candidate *starts* when he/she steps on the rung. The time *stops* when he/she steps back onto the platform.
 6. The candidate, when reaching the 75ft mark must ring a bell that is hanging from the ladder.
 7. If the candidate exceeds the 5 minutes or requires assistance by a firefighter or the belay system in order to come down; that candidate has failed that portion of the test and will no longer be eligible to proceed further in the process.

