This Candidate Physical Ability Test (CPAT) consists of eight separate events. The CPAT is a sequence of events requiring you to progress along a predetermined path from event to event in a continuous manner. This test was developed to allow fire departments to obtain pools of trainable candidates who are physically able to perform essential job tasks at fire scenes. This is a pass/fail test based on a validated maximum total time of 10 minutes and 20 seconds. In these events, you wear a 50-pound (22.68-kg) vest to simulate the weight of self[1]contained breathing apparatus (SCBA) and fire fighter protective clothing. An additional 25 pounds (11.34 kg), using two 12.5-pound (5.67-kg) weights that simulate a high-rise pack (hose bundle), is added to your shoulders for the stair climb event. Throughout all events, you must wear long pants, a hard hat with chinstrap, work gloves and footwear with no open heel or toe. Watches and loose or restrictive jewelry are not permitted. 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 CPAT is included in this orientation material; however, the course layout may vary in order to conform to the fire department's test area. The events and distances between events are always the same. The events are placed in a sequence that best simulates fire scene events while allowing an 85-foot (25.91 -m) walk between events. To ensure the highest level of safety and to prevent exhaustion, no running is allowed between events. This walk allows you approximately 20 seconds to recover and regroup before each event. To ensure scoring accuracy by eliminating timer failure, two stopwatches are used to time the CPAT. One stopwatch is designated as the official test time stopwatch, the second is the backup stopwatch. If mechanical failure occurs, the time on the backup stopwatch is used. The stopwatches are set to the pass/fail time and count down from 10 minutes and 20 seconds. If time elapses prior to the completion of the test, the test is concluded and you fail the test. Candidate Physical Ability Test® Orientation Guide Fire Service Joint Labor Management Wellness/Fitness Initiative

Event 1 Stair Climb Equipment This event uses a Step-Mill stair-climbing machine. The machine is positioned with one side up against a wall and an elevated proctor platform on the side opposite the wall. A single handrail on the wall side is available for you to grasp while mounting and dismounting the Step-Mill. Additional steps are placed at the base of the Step-Mill to assist you in mounting and dismounting the Step-Mill. Purpose of Evaluation This event is designed to simulate the critical tasks of climbing stairs in full protective clothing while carrying a high-rise pack (hose bundle) and carrying fire fighter equipment. This event challenges your aerobic capacity, lower body muscular endurance and ability to balance. This event affects your aerobic energy system as well as the following muscle groups: quadriceps, hamstrings, glutes, calves, and lower back stabilizers. Event For this event, you must wear two 12.5-pound (5.67-kg) weights on your shoulders to simulate the weight of a high-rise pack. Prior to the initiation of the timed CPAT, there is a 20-second warm-up on the Step-Mill at a set stepping rate of 50 steps per minute. During this warm-up period, you are permitted to dismount, grasp the rail or hold the wall to establish balance and cadence. If you fall or dismount the Step-Mill during the 20-second warm-up period, you must remount the Step-Mill and restart the entire 20-second warm-up period. You are allowed to restart the warm-up period twice. The timing of the test begins at the end of this warm-up period when the proctor who calls the word "START." There is no break in time between the warm-up period and the actual timing of the test. For the test, you must walk on the Step-Mill at a set stepping rate of 60 steps per minute for 3 minutes. This concludes the event. The two 12.5-pound (5.67-kg) weights are removed from your shoulders. Walk 85 feet (25.91m) within established walkway to the next event. Failures If you fall or dismount the Step-Mill three times during the warm-up period, you fail the test. If you fall, grasp any of the test equipment or dismount the Step-Mill after the timed CPAT begins, the test is concluded and you fail the test. During the test, you are permitted to touch the wall or handrail for balance only momentarily. However, if the wall or handrail is grasped or touched for

an extended period of time, or if the wall or handrail is used for weight bearing, you are warned. Only two warnings are given. The third infraction constitutes a failure, the test time is concluded and you fail the test.

Event 2 Hose Drag Equipment This event uses an uncharged fire hose with a hose line nozzle. The hose line is marked at 8 feet (2.24 m) past the coupling at the nozzle to indicate the maximum amount of hose you are permitted to drape across your shoulder or chest. The hose line is also marked at 50 feet (15.24 m) past the coupling at the nozzle to indicate the amount of hose line that you must pull into a marked boundary box before completing the test. Purpose of Evaluation 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 hose line around obstacles while remaining stationary. This event challenges your aerobic capacity, lower body muscular strength and endurance, upper back muscular strength and endurance, grip strength and endurance, and anaerobic endurance. This event affects your aerobic and anaerobic energy systems as well as the following muscle groups: quadriceps, hamstrings, glutes, calves, lower back stabilizers, biceps, deltoids, upper back, and muscles of the forearm and hand (grip). Event For this event, you must grasp a hose line nozzle attached to 200 feet (60 m) of 1 %-inch (44-mrn) hose. Place the hose line over your shoulder or across your chest, not exceeding the 8-foot (2.24-rn) mark. You are permitted to run during the hose drag. Drag the hose 75 feet (22.86 m) to a pre-positioned drum, make a 90° turn around the drum, and continue an additional 25 feet (7.62 m). Stop within the marked 5 foot x 7 foot (1.52 m x 2.13 m) box, drop to at least one knee and pull the hose line until the hose line's 50-foot (15.24-m) mark crosses the finish line. During the hose pull, you must keep at least one knee in contact with the ground and knee(s) must remain within the marked boundary lines. This concludes the event. Walk 85 feet (25.91 m) within the established walkway to the next event. Failures During the hose drag, if you fail to go around the drum or go outside of the marked path (cones), the test time is concluded and you fail the test. During the hose pull, you are warned if at least one knee is not kept in contact with the ground. The second infraction constitutes a failure, the test time is concluded and you fail the test. During hose pull, you are warned if your knees go outside the marked boundary line. The second infraction constitutes a failure, the test time is concluded and you fail the test.

Event 3 Equipment Equipment This event uses two saws and a tool cabinet replicating a storage cabinet on a fire truck. Purpose of Evaluation This event is designed to simulate the critical tasks of removing power tools from a fire apparatus, carrying them to the emergency scene and returning the equipment to the fire apparatus. This event challenges your aerobic capacity, upper body muscular strength and endurance, lower body muscular endurance, grip endurance, and balance. This event affects your aerobic energy system as well as the following muscle groups: biceps, deltoids, upper back, trapezium, muscles of the forearm and hand (grip), glutes, quadriceps, and hamstrings. Event For this event, you must remove the two saws from the tool cabinet, one at a time, and place them on the ground. Pick up both saws, one in each hand, and carry them while walking 75 feet (22.86 m) around the drum then back to the starting point. You are permitted to place the saw(s) on the ground and adjust your grip. Upon return to the tool cabinet, place the saws on the ground and pick up each saw one at a time. Then replace the saws in the designated space in the cabinet. This concludes the event. Walk 85 feet (25.91 m) within the established walkway to the next event. Failures If you drop either saw on the ground during the carry, the test time is concluded and you fail the test. You receive one warning for running. The second infraction constitutes a failure, the test time is concluded and you fail the test.

Event 4 Ladder Raise and Extension Equipment This event uses two 24-foot (7.32-m) fire department ladders. For your safety, a retractable lanyard is attached to the ladder that you raise. Purpose of Evaluation This event is designed to simulate the critical tasks of placing a ground ladder at a fire

structure and extending the ladder to the roof or window. This event challenges your aerobic capacity, upper body muscular strength, lower body muscular strength, balance, and grip strength, and anaerobic endurance. This event affects your aerobic and anaerobic energy systems as well as the following muscle groups: biceps, deltoids, upper back, trapezium, muscles of the forearm and hand (grip), glutes, quadriceps, and hamstrings. Event For this event, you must walk to the top rung of the 24-foot (7.32-m) aluminum extension ladder, lift the unhinged end from the ground, and walk it up until it is stationary against the wall. This must be done in a hand over hand fashion, using each rung until the ladder is stationary against the wall. You must not use the ladder rails to raise the ladder. Immediately proceed to the pre-positioned and secured 24-foot (7.32-m) aluminum extension ladder, stand with both feet within the marked box of 36 inches x 36 inches (91.44 cm x 91.44 cm), and extend the fly section hand over hand until it hits the stop. Then, lower the fly section hand over hand in a controlled fashion to the starting position. This concludes the event. Walk 85 feet (25.91 m) within the established walkway to the next event. Failure If you miss any rung during the raise, one warning is given. The second infraction constitutes a failure, the test time is concluded and you fail the test. If you allow the ladder to fall to the ground or the safety lanyard is activated because you released your grip on the ladder, the test time is concluded and you fail the test. If during the ladder extension, your feet do not remain within marked boundary lines, one warning is given. The second infraction constitutes a failure, the test time is concluded and you fail the test. If you do not maintain control of the ladder in a hand over hand manner, or let the rope halyard slip in an uncontrolled manner, your test time is concluded and you fail the test.

Event 5 Forcible Entry Equipment This event uses a mechanized device located 39 inches (1 m) off the ground that measures cumulative force and a 10-pound (4.54-kg) sledgehammer. Purpose of Evaluation This event is designed to simulate the critical tasks of using force to open a locked door or to breach a wall. This event challenges your aerobic capacity, upper body muscular strength and endurance, lower body muscular strength and endurance, balance, grip strength and endurance, and anaerobic endurance. This event affects your aerobic and anaerobic energy systems as well as the following muscle groups: quadriceps, glutes, triceps, upper back, trapezium, and muscles of the forearm and hand (grip). Event For this event, you must use a 10-pound (4.54-kg) sledgehammer to strike the measuring device in the target area until the buzzer is activated. During this event, you must keep your feet outside the toe-box at all times. After the buzzer is activated, place the sledgehammer on the ground. This concludes the event. Walk 85 feet (25.91 m) within the established walkway to the next event. Failures If you do not maintain control of the sledgehammer and release it from both hands while swinging, it constitutes a failure, the test time is concluded and you fail the test. If you step inside the toe-box, one warning is given. The second infraction constitutes a failure, the test time is concluded and you fail the test.

Event 6 Search Equipment This event uses an enclosed search maze that has obstacles and narrowed spaces. Purpose of Evaluation 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 your aerobic capacity, upper body muscular strength and endurance, agility, balance, anaerobic endurance, and kinesthetic awareness. This event affects your aerobic and anaerobic energy systems as well as the following muscle groups: muscles of the chest, shoulder, triceps, quadriceps, abdominal, and lower back. Event For this event, you must crawl through a tunnel maze that is approximately 3 feet (91.44 cm) high, 4 feet (121.92 cm) wide and 64 feet (19.51 m) in length with two 90° turns. At a number of locations in the tunnel, you must navigate around, over and under obstacles. In addition, at two locations, you must crawl through a narrowed space where the dimensions of the tunnel are reduced. Your movement is monitored through the maze. If for any reason, you choose to end the event, call out or rap sharply on the wall or ceiling and you will be assisted out of the maze. Upon exit from the maze, the event is concluded. Walk 85 feet (25.91 m) within the established walkway to the next event. Failures A request for assistance that

requires the opening of the escape hatch or opening of the entrance/exit covers constitutes a failure, the test time is concluded and you fail the test.

Event 7 Rescue Equipment This event uses a weighted mannequin equipped with a harness with shoulder handles. Purpose of Evaluation This event is designed to simulate the critical task of removing a victim or injured partner from a fire scene. This event challenges your aerobic capacity, upper and lower body muscular strength and endurance, grip strength and endurance, and anaerobic endurance. This event affects your aerobic and anaerobic energy systems as well as the following muscle groups: quadriceps, hamstrings, glutes, abdominals, torso rotators, lower back stabilizers, trapezium, deltoids, latissimus dorsi, biceps, and muscles of the forearm and hand (grip). Event For this event, you must grasp a 165-pound (74.84-kg) mannequin by the handle(s) on the shoulder(s) of the harness (either one or both handles are permitted), drag it 35 feet (10.67 m) to a pre-positioned drum, make a 180° turn around the drum, and continue an additional 35 feet (10.67 m) to the finish line. You are not permitted to grasp or rest on the drum. It is permissible for the mannequin to touch the drum. You are permitted to drop and release the mannequin and adjust your grip. The entire mannequin must be dragged until it crosses the marked finish line. This concludes the event. Walk 85 feet (25.91 m) within the established walkway to the next event. Failures If you grasp or rest on the drum at any time, one warning is given. The second infraction constitutes a failure, the test time is concluded and you will fail the test.

Event 8 Ceiling Breach and Pull Equipment This event uses a mechanized device that measures overhead push and pull forces and a pike pole. The pike pole is a commonly used piece of equipment that consists of a 6-foot long pole with a hook and point attached to one end. Purpose of Evaluation This event is designed to simulate the critical task of breaching and pulling down a ceiling to check for fire extension. This event challenges your aerobic capacity, upper and lower body muscular strength and endurance, grip strength and endurance, and anaerobic endurance. This event affects your aerobic and anaerobic energy systems as well as the following muscle groups: quadriceps, hamstrings, glutes, abdominal, torso rotators, lower back stabilizers, deltoids, trapezes, triceps, biceps, and muscles of the forearm and hand (grip). Event For this event, you must remove the pike pole from the bracket, stand within the boundary established by the equipment frame, and place the tip of the pole on the painted area of the hinged door in the ceiling. Fully push up the 60-pound hinged door in the ceiling with the pike pole three times. Then, hook the pike pole to the 80-pound ceiling device and pull the pole down five times. Each set consists of three pushes and five pulls. Repeat the set four times. You are permitted to stop and, if needed, adjust your grip. Releasing your grip or allowing the pike pole handle to slip, without the pike pole falling to the ground, does not result in a warning or constitute a failure. You are permitted to re-establish your grip and resume the event. If you do not successfully complete a repetition, the proctor calls out "MISS" and you must push or pull the apparatus again to complete the repetition. This event and the total test time ends when you complete the final pull stroke repetition as indicated by a proctor whom calls out "TIME." Event 8 Ceiling Breach and Pull (Continued) Failures One warning is given if you drop the pike pole to the ground. If you drop the pike pole, you must pick it up without proctor assistance and resume the event. The second infraction constitutes a failure, the test time is concluded and you fail the test. If your feet do not remain within the marked boundary lines, one warning is given. The second infraction constitutes a failure, the test time is concluded and you fail the test.

Test Forms You must present valid identification and sign a number of forms before taking the CPAT. You are provided an opportunity to review a video online at: https://www.mtfiretesting.org/test-info/ detailing the CPAT and the failure points. It is your responsibility to ask questions if you do no understand any parts of the test events or procedures. You are required to complete the Waiver and Release Form. At the conclusion of the CPAT, you must sign the CPAT Evaluation Form.