Become a Manitoba Emergency Services College Graduate

Demanding and challenging careers await graduates of the Public Fire Paramedic Program Diploma.

These courses are designed to train firefighters and paramedics by giving them access to the best tools, equipment and instructors. This program has a 20 year history of providing a training experience like no other in emergency services. Graduates of this program are the preferred professionals for many career departments. This program requires an individual to take on serious tasks over the long term in order to become a graduate. Only at MESC can a person be exposed to all facets of emergency response training, whether in the classroom or on the training ground.

Our one-of-a-kind practical training site and our disciplined approach to teamwork make our College unique. Students are involved in the operation of a working emergency services department. This means exposure to other training opportunities, course offerings and the emergency services in general. Students train with the equipment and are given time to achieve their skills and become proficient at their jobs. Scenario based training over the length of the course makes you confident, capable and safe.

Working with our partners we have achieved the credentials necessary to develop, support, and accredit a wide range of training programs. Our program delivers a strong history of excellence and our graduates convey that excellence.

Join the Team, and Work With Us
“Training to Save Lives”
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PUBLIC FIRE PARAMEDIC PROGRAM DIPLOMA

PROGRAM DESCRIPTION

The Manitoba Emergency Services College (MESC) is located in Brandon Manitoba. The Public Fire Paramedic Program Diploma (PFPP) is for individuals seeking a rewarding career in the Emergency Services. This program is 10 months and graduates will receive a Diploma upon successful completion.

A PFPP Diploma offers pre-employment training in pertinent areas of emergency protection as it relates to today’s emergency services. Candidates train using conventional and state-of-the-art technology to meet the needs and demands so essential to this day and age. Each course covers a wide range of topics emphasizing hands-on application of the many theories and concepts.

COURSE AREAS – complete descriptions available starting on page 17

• Fire Fighting Practices Level I (meets NFPA 1001 - 2008 & accredited with IFSAC* & ProBoard ****)
• Fire Fighting Practices Level II (meets NFPA 1001 - 2008 & accredited with IFSAC* & ProBoard ****)
• Primary Care Paramedic (meets PAC** competencies & accredited with CMA***)
• Driver/Operator - Pumper (meets NFPA 1002 -2009 & accredited with IFSAC* & ProBoard ****)
• Surface Water Rescue Technician
  (meets NFPA 1006 - 2008 & accredited with IFSAC* & ProBoard ****)
• Hazardous Materials - Awareness (meets NFPA 472 - 2008 & accredited with IFSAC*)
• Hazardous Materials - Operations (meets NFPA 472 – 2008 & accredited with IFSAC*)
• Fire and Life Safety Educator Level 1
  (meets NFPA 1035 - 2005 & accredited with IFSAC* & ProBoard ****)
• Fire Inspector Level I (meets NFPA 1031 – 2009 & accredited with IFSAC*)
• Incident Command System 100
• Rescue Practices
• Vehicle Extrication
• Physical Training Program

* IFSAC International Fire Service Accreditation Congress
** PAC Paramedic Association of Canada
*** CMA Canadian Medical Association
**** ProBoard National Board on Fire Service Professional Qualifications

Graduates of this program may find employment in many emergency services related areas. These may include:

• Federal, provincial or municipal emergency services;
• Industrial and institutional safety and response specialists;
• Equipment sales and service dealing with fire and medical.

APPLICATION PROCESS

The MESC application process consists of six (6) Steps. Applicants must meet the following requirements within the application process:

• Applicants MUST be 18 years of age prior to Step #3 deadline date;
• Applicants MUST have a valid Class 5 F (full) drivers license by Step #5 deadline date;
• Applicants MUST meet education requirements by Step #6. Education requirements are outlined in Step #2.
Failure to meet the minimum requirements of any step will result in the disqualification of the applicant from further consideration for the duration of the application process. Applicants will be allowed only one attempt at any step per application process.

**Step #1 - Application**

Applicants must submit a completed PFPP Application Form and the $75.00 non-refundable application fee. Application forms can be found on page 21 the MESC website at [www.firemedic.ca](http://www.firemedic.ca)

**Step #2 - Administration**

Within 30 days following the Step #1 application deadline, notification will be sent requiring the applicant to provide the following information:

- Resume (no more than 2 pages)
- Manitoba Grade 12 (Senior 4) Secondary School Diploma or Equivalent
  - One senior level in biology
  - One senior level in chemistry or physics
  - Two senior levels in English OR one English and one French
- Transcripts from Post Secondary Education or other courses taken if applicable
- Medical Clearance Form signed by your Family Doctor (form on MESC website)
- Copy of current Driver’s License
- Original copy of Driver’s Abstract (available at the Motor Vehicle Branch)
- Vision Check Form signed by your Optometrist (form on MESC website)
- $100.00 fee for CPAT payable to Minister of Finance by “Certified” Cheque, Money Order, Visa, MasterCard or in person by Interac

All MESC Forms are available on-line at [www.firemedic.ca](http://www.firemedic.ca)

**NOTE: ALL COPIES MUST BE CLEAR AND LEGIBLE OR THEY WILL BE RETURNED. INCOMPLETE PACKAGES WILL BE RETURNED AND THE APPLICANT IS RESPONSIBLE TO RESUBMIT BY THE SPECIFIED DEADLINE.**

**Step #3 – Physical Testing**

Applicants who complete Step #2 successfully will proceed to Step #3. In this step, the applicant will receive a letter confirming the date and time of the Candidate Physical Ability Test (CPAT). Photo identification is required at the time of this test.

For a complete description of CPAT, please go to page 9.

**Step #4 – Academic Testing**

At the successful completion of Step #3 the applicant will receive a confirmation letter to proceed to Step #4. This letter will outline the time, date, location and fee for the Canadian Adult Achievement Test (CAAT). Photo identification is required for this test.

For a complete description of CAAT, please go to page 16.
Step #5 – Interviews

Applicants selected from Step #4 will proceed to an interview with a Selection Committee from the Manitoba Emergency Services College.  **ALL DECISIONS FOR THE SELECTION OF CANDIDATES BY THIS COMMITTEE ARE FINAL.**

Step #6 - Selection

Candidates accepted into the Program from Step #5 will be notified by letter and must complete Step #6 within a given time frame. Candidates will be required to submit a $1,000.00 registration fee by date stated in their acceptance letter. **This registration fee will be deducted from the tuition fee. This registration fee will not be refunded after one (1) week of the date stated.**

Candidates must:

- Undergo a full medical examination from your Family Doctor (form supplied by the MESC)
- Must possess a current Standard First Aid course and CPR Level ‘C’ course (16 hours) at the time of application. Proof of training must be supplied.
- Obtain a Criminal Record check (current within 6 months)
- Obtain a Child Abuse Registry check (current within 6 months)
- Upgrade Driver’s License to a Manitoba Class 4 with Air Brake Endorsement (candidates from outside of Manitoba must have a license equivalent to the Manitoba Class 4 with Air Brake Endorsement from their Province)

### 2012/2013 PFPP APPLICATION PROCESS

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<td>$75.00</td>
<td>January 30, 2012</td>
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<td><strong>NO FURTHER INQUIRIES OR APPLICATIONS FOR THIS PROGRAM WILL BE ACCEPTED AFTER 4:30 P.M. CST ON January 30, 2012</strong></td>
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General Information

PLEASE READ THIS BROCHURE CAREFULLY. IMPROPER APPLICATIONS WILL BE RETURNED WITHOUT NOTICE.

All fees are subject to change without notice. The Manitoba Emergency Services College reserves the right to change the program and testing as industry and standards deem necessary.

Applications are not transferred from year to year. Individuals wishing to re-apply must complete and submit a new Application Form with the application fee and proceed through each of the steps the following year.

Information contained in the application is personal and will ONLY BE DISCUSSED with the INDIVIDUAL MAKING THE APPLICATION.

FEES AND EXPENSES

Tuition Fee is $17,000.00 (subject to change without notice). Additional costs such as textbooks, coveralls, safety footwear, gloves, fire fighter boots, stethoscope and station wear, insurance, trips and practicums will cost approximately $3,000.00. It is recommended that candidates should budget for extra supplies that may be required; as well candidates are responsible for their own accommodations while taking this program.

All fees must be payable by Visa, MasterCard, Cash (Do not send cash in the mail), Money Order, Interac, “CERTIFIED” Cheque, (payable to Minister of Finance) (NO PERSONAL CHEQUES).

REFUNDS

Refunds will be considered as per the Public Fire Paramedic Program Diploma Policy. These policies will be outlined by letter throughout the selection process.

GRIEVANCE PROCEDURE

Any applicant wishing to submit a grievance during Step #3 or Step #4 may do so by putting it in writing to the Director of the Manitoba Emergency Services College. Grievances must be submitted in writing by the end of the following business day after the test date. A written response to the grievance will be provided within five (5) business days of receipt of the grievance.  **Grievances will not be accepted by telephone.**
Testing Information

Step #1 – Vision Test

Must meet the National Fire Protection Association Standard (NFPA) 1582 – 2007 Edition for vision at the time of application. This form is not required to be submitted until Step #2.

Visual Acuity: Far visual acuity is at least 20/40 binocular, corrected with contact lens or spectacles.

*Far visual acuity uncorrected is at least 20/100 binocular for wearers of hard contacts or spectacles.

*Successful long-term soft contact lens wearers (that is, 6 months without a problem) are not subject to the uncorrected standard.

Color perception:

Normal – passes Ishihara Test
Acceptable – passes Farnsworth D-15

Note: Some fire departments may have other Driver’s License requirements. Candidates are responsible for making sure that their license meets those requirements.

Step #3 – Physical Testing

CANDIDATE PHYSICAL ABILITY TEST (CPAT)

This test is for applicants who are applying for the PFPP Diploma or firefighter certification. This Candidate Physical Ability Test (CPAT) consists of eight (8) separate events. The CPAT is a sequence of events requiring the applicant to progress along a predetermined path from event to event in a controlled continuous manner.

This is a pass/fail test based on a validated maximum total time of 10 minutes and 20 seconds.

All CPAT info is available at two (2) advertised orientation sessions as well as the MSEC website, www.firemedic.ca A fee of $100 is included as part of your application fee.

Prior to the start of the CPAT you must complete the Sign-in Form and present valid photo identification and are required to complete the Waiver and Release Form. You are given an opportunity to attend an orientation where you will view a video detailing the CPAT and the failure points. It is your responsibility to ask questions during the orientation if you do not understand any parts of the test events or procedures. At the conclusion of the CPAT, you must sign the CPAT Evaluation Form. Additionally, prior to leaving the rehabilitation area, you must complete and sign the Rehabilitation Form. If you fail to complete and sign any of these forms you fail the CPAT.

In these events, you wear a 50 pound (22.68 kg) vest to simulate the weight of a self-contained breathing apparatus (SCBA) and firefighter protective clothing. An additional 25 pounds (11.34 kg), using two (2) 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 only.

Throughout all events, you must wear long pants, a hard hat with chin strap, 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. 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 (25.91m) 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.

**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 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. 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 (2) 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 able to 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 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 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 three minutes. This concludes the event. The two (2) 12.5 pound (5.67 kg) weights are removed from your shoulders. Walk 85 feet (25.91 m) within the 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 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 hoseline nozzle. The hoseline is marked at eight (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 hoseline is also marked at 50 feet (15.24 m) past the coupling at the nozzle to indicate the amount of hoseline 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 hoseline from the fire apparatus to the fire occupancy and pulling an uncharged hoseline 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 hoseline nozzle attached to 200 feet (60 m) of 1 ¾ inch (44 mm) hose. Place the hoseline over your shoulder or across your chest, not exceeding the 8 foot (2.24 m) 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 hoseline until the hoseline’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 Carry**

**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, trapezius, muscles of the forearm and hand (grip), glutes, quadriceps, and hamstrings.
**Event**

For this event, you must remove the two (2) 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 returning to the tool cabinet, place the saws on the ground, pick up each saw one at a time, and replace the saw 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, 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, trapezius, muscles of the forearm and hand (grip), glutes, quadriceps, and hamstrings.

**Event**

For this event, you must walk over to the top rung of the 24 foot (7.32 m) aluminum extension ladder that is stationed flat on the floor, lift the unhinged end from the ground, and walk it up until it is stationary upright 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.

**Failures**

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, and anaerobic endurance. This event affects your aerobic and anaerobic energy systems as well as the following muscle groups: quadriceps, glutes, triceps, upper back, trapezius, 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, abdominals, 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, trapezius, 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 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 (1.82 m) 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, abdominals, torso rotators, lower back stabilizers, deltoids, trapezius, 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 (27.21 kg) hinged door in the ceiling with the pike pole three times. Then, hook the pike pole to the 80 pound (36.28 kg) ceiling device and pull the pole down five times. Each set consists of three (3) pushes and five (5) pulls. Repeat the set four (4) 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 who calls out “TIME”.

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.
Step # 4 – Academic Testing

CANADIAN ADULT ACHIEVEMENT TEST (CAAT)

This test will examine knowledge and ability in several academic areas. Candidates must present photo identification at the time of testing. This is a timed test covering the following areas:

Vocabulary - assesses knowledge and understanding of words that are frequently used by adults in their work and daily activities.

Reading Comprehension - measures the examinee’s comprehension of written material. The reading passages include material of a functional nature and material of an educational nature, testing literal and inferential comprehension.

Spelling - includes words which are representative of the types of words that adults need in written communication and words which sample the most common phonetic and structural principles of spelling.

Number Operations - assesses concepts of numbers and computation. Objectives measured by this test include reading and writing numerals, interpreting fractions and percents, understanding the operations and using “0” as an operator.

Problem Solving - measures the examinee’s ability to determine an outcome, to record and retrieve information, to use geometric concepts and to measure. Problems involve the use of whole numbers, decimals, fractions and percents.

Mechanical Reasoning - requires the examinee to solve 70 items consisting of a pictorially presented mechanical situation together with a simply worded question.

Language - measures the examinee’s functional knowledge and effective use of the English language. The test assesses reference skills, language sensitivity and paragraph arrangement.

Science - measures the understanding of the basic concepts of physical and biological sciences such as conservation of matter and energy, changes in the physical universe and environmental interactions between living things.
COURSE AREAS

Fire Fighting Practices Level I (meets NFPA 1001 - 2008 & accredited with IFSAC* & ProBoard****)

This course is the first level in the Fire Fighting Program. It is designed to provide the skills necessary to effectively perform the functions of a fire fighter and to upgrade and re-align those skills with the changing times. By the end of this course students should be able to: apply departments general operating guidelines, rules and regulations in any situations, effectively use fire department communications, perform fire ground operations necessary to ensure life safety, fire control and property conservation and, perform the activities of prevention, preparedness and maintenance to effectively reduce the loss of life and property due to fire.

Fire Fighting Practices Level II (meets NFPA 1001 - 2008 & accredited with IFSAC* & ProBoard****)

This course is the second level in the Fire Fighting Program. It is designed to provide the skills necessary to perform the functions of a fire fighter. This includes suppression technology, and typical and special fire fighting abilities. By the end of this course candidates should be able to assume command within an incident management system, communicate effectively using both department communication systems and incident reporting systems, perform fire ground operations necessary to ensure life safety, fire control and property conservation, perform rescue operation activities related to accessing and disentangling victims from motor vehicle accidents and helping special rescue teams and perform activities related to reducing the loss of life and property due to fire through hazard identification, inspection and response readiness.

Primary Care Paramedic (meets PAC** competencies & accredited with CMA***)

The Primary Care Paramedic program prepares the individual for work in the prehospital field. The course consists of both theory and a significant amount of hands on time with equipment to allow our students to become comfortable prior to starting their clinical and ambulance practicum time. An added bonus for our students is they receive certification in a recognized trauma course from International Trauma Life Support (ITLS). ITLS is an international organization with Chapters throughout the world. This course is required by many jurisdictions prior to being eligible for registration. Clinical rotations are completed in the emergency departments in hospitals within major centres in Manitoba. All ambulance practicums are completed with our partnering organization – Winnipeg Fire Paramedic Service. Our students spend a minimum of 18 shifts on the ambulance and average approximately 75 calls during that time.

Fire Inspector Level I (meets NFPA 1031 – 2009 & accredited with IFSAC* & ProBoard****)

This course is designed to teach students to apply the concepts and skills of a fire inspector. Students learn about fire safety, codes and standards, and fire protection systems and how to think their way through fire prevention inspections.

Driver/Operator - Pumper (meets NFPA 1002 -2009 & accredited with IFSAC* & ProBoard****)

This course consists of 3 components which must be successfully completed to challenge the exam process. The components are: Emergency Vehicle Driving Skills, Pump Operations, and Fire Service Hydraulics. Emergency Driving Skills: This course is designed for emergency service personnel who are or wish to become emergency vehicle operators. Students will learn the psychological and physiological aspects of driving, perception and reaction judgement, pre-ignition procedures, vehicle dynamics, the attitudes and habits of the driver, proper steering, braking and handling control, the risks associated with speed and the techniques to effectively move the emergency vehicle properly while reducing operating speed.
Emphasis for this program will be on the practical development of these skills using a driving track. Students will operate the emergency vehicle through a serpentine, alley dock, perception and reaction skill test, straight line and curves and will also learn the proper braking technique.

**Pump Operations:** This course is designed for fire service personnel to develop skills in the operation of fire pumpers. Students will learn pressure regulating devices, the operating principles of drive lines, positive displacement and centrifugal fire pumps, foam systems, gauges and controls, pumping from a hydrant, relay pumping, basic friction loss calculations to determine minimum pump pressure, pump testing gauges controls and basic maintenance checks.

**Fire Service Hydraulics:**
Students will learn:
- Basic calculations in friction loss
- Flow pressures
- Nozzle reaction
- Elevation
- Appliance loss
- Water distribution systems

Emphasis will be on the theoretical hydraulic applications. Students will learn how to prepare quick reference material for aid on the fire ground. This course is taught using the METRIC system only.

**Surface Water Rescue Technician (meets NFPA 1006 - 2008 & accredited with IFSAC* & ProBoard****)**

This course provides emergency response personnel who will be required to respond to and work in the open surface water environment including river (low head dams) and flood applications (not swift water). This course is designed around the use of full flotation survival emersion suits and other specialized water rescue equipment.

The candidate will learn preplanning an incident, incident management, specialized equipment, boat operations (zodiac), shore based rescue, boat based rescue, patient management in the water environment, specialized patient packaging, survival techniques for the rescuer, consideration for night operations, incident termination and equipment maintenance.

**Hazardous Materials - Awareness (meets NFPA 472 - 2008 & accredited with IFSAC* & ProBoard****)**

Emergency Response Team members at the awareness level are those persons who, in the course of their normal duties, could be the first on the scene of a hazardous materials emergency response. This course stresses how responders can protect themselves, call for trained personnel, and secure the area. Information is also provided on Transport Canada placarding, utilizing various resources like CANUTEC, and use of the Emergency Response Guidebook.

**Hazardous Materials - Operations (meets NFPA 472 – 2008 & accredited with IFSAC* & ProBoard****)**

Emergency Response Team members at the Operations level are those persons who respond to releases or potential releases of hazardous materials, for the purpose of protecting nearby persons, property and the environment from the effects of the product. Emergency Responders at the operations level are expected to respond in a defensive fashion to control the release from a safe distance and keep it from spreading. This course teaches skills needed for detecting the presence of hazardous substances, consulting references for additional information, and implementing work practices that will minimize the possibility of contamination.
Fire and Life Safety Educator Level 1 (meets NFPA 1035 - 2005 & accredited with IFSAC* & ProBoard****)

This course is designed to provide the skills necessary to deliver and co-ordinate Fire and Life Safety Education at various levels within a community.

This course will outline the curriculum development process and give general guidelines for planning successful presentations. It will familiarize you with information on what motivates people to learn and how people learn differently. Other topics will include learning characteristics of different age groups, educational materials selection and program evaluation, working co-operatively with other community agencies, finding and using resources and working with the media.

Incident Command System 100

This introductory course will cover the basics of the Incident Command model of emergency management. All members of Emergency Services should take this course so they are aware of how the Incident Command model works.

Rescue Practices

This course is designed to prepare emergency services personnel with the skills to enter into other rescue specialties. The candidate will be able to operate under a recognized command structure, perform basic rescue skills, identify specific equipment and learn proper maintenance procedures. This course will teach the candidate the basic skills that can be applied to many rescue situations.

Vehicle Extrication

This seminar is designed to teach the skills of how to approach and size-up a motor vehicle accident and the correct procedures for getting into, stabilizing and disentangling vehicles. The procedures for packaging and removing victims are also demonstrated. Practical skills are taught by having the participants work on actual vehicles and perform the necessary skills.

Physical Training Program

Physical health and fitness is an important part of the Fire and Emergency Services profession. The Manitoba Emergency Services College (MESC) incorporates a Physical Training (PT) program in the Public Fire Paramedic Program (PFPP) to assist our students in maintaining a high standard of physical fitness in order to assist them in the physical demands of the day – to – day operations of the emergency services field. The PT program is lead by MESC instructors and consists of two mandatory, one hour workout sessions each week. These sessions include training which incorporates various aspects of physical fitness such as interval training, aerobic training, muscular strength, aquatics and organized team events.

* IFSAC International Fire Service Accreditation Congress
** PAC Paramedic Association of Canada
*** CMA Canadian Medical Association
**** ProBoard National Board on Fire Service Professional Qualifications
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2012/2013

If you are interested in applying for this program, please complete this form and return it to the Manitoba Emergency Services College. A **non-refundable, non-transferable** application fee of $75.00 must accompany this form. Only “Certified” Cheques (NO PERSONAL CHEQUES) or Money Orders payable to the “Minister of Finance”, VISA, MasterCard or Debit Card will be accepted. (Please do not send cash in the mail). No other information is required with this form. Please ensure the information provided below is LEGIBLE.

___________________________________    ________________________________________
SURNAME                               First and Middle Names

Mailing Address

________________________      ___________________________     _____________________________
Town/City                                  Province            Postal Code

Home Telephone                        Cell Telephone                                Work Telephone

E-Mail Address

Gender:   M☐   F ☐                     Birthdate:  _______  _______  _______
                   MM         DD          YYYY

Visible Minority:  Y ☐   N ☐

Aboriginal Applicants:   Status ☐   Non-Status ☐   Metis ☐   Inuit ☐

___________________________________   ______________________________
Signature   Date

Applicants are responsible for notifying the Manitoba Emergency Services College of address changes and if they do not receive information.