BASIC EMT REFRESHER – Fall 2021
Clarkson University
Monday & Wednesday 6:30 - 9:30 p.m.
Saturday 9 a.m. – 12 noon & 1 – 4 p.m.
Instructor: Tyler Clark, CIC
Donald Thompson, CIC

**(PLEASE NOTE CHANGE IN TEXT BOOK EDITION)** TEXT - Emergency Care by Brady, 14th edition

**PLEASE NOTE:** Starting with the fall 2012 Basic EMT classes, there are now pre-requisites or co-requisites that are required for each student to complete. These requirements are the following two NIMS and Hazmat Awareness classes, **ISO-100, ISO-700, and IO-05 Introduction to Hazardous Materials**. Certificate copies of these three courses **MUST** be submitted prior to the practical skills exam. Website is [www.training.fema.gov](http://www.training.fema.gov)

### Basic Refresher Class

<table>
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<tr>
<th>Date</th>
<th>Activities</th>
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<tr>
<td>Aug. 21, Sat.</td>
<td>Challenge written exam. Test time will be 10:00 until all are finished.</td>
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<tr>
<td>Aug. 28, Sat.</td>
<td>Challenge practical exam. Will begin at 9:00. At its conclusion, contracts will be discussed with each student and signed, one copy going to the student and a second copy being placed into the student’s file. Any classes or practical labs the student will be required to attend will follow the EMT basic original class schedule below.</td>
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<tr>
<td>Aug. 30, Mon.</td>
<td>1 Registration &amp; Introduction, Course Expectations and Requirements, ER Observations Requirements, Review of State Protocol Booklet, <strong>Begin Module 1 Roles and Responsibilities of the EMT; Infectious Control, PPE and OSHA Regulations. Chapters 1, 2</strong></td>
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<td>Sept. 1, Wed.</td>
<td>2 Anatomy, Physiology, &amp; overview of human systems; Medical Terminology; EMT and the Law and the legal issues that present to the EMT; DNRs and MOLST forms. Discuss blood borne pathogens which will include the different communicable diseases and how they are transmitted, infection control <strong>Chapters 4, 5, 6</strong></td>
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<tr>
<td>Sept. 4, Sat.</td>
<td>3 &amp; 4 This class will begin at 9:00 am. CPR - Basic Life Support – AHA; Adult Rescue Breathing, Choking &amp; CPR; Two-man CPR; Use of the Pocket Mask This course will be run in two sessions: a complete course for anyone who is not currently certified in CPR and for those who are refreshing and need to have their skills reviewed by the instructor. CPR Test on Monday. All students will be required to take this written test upon completion of the CPR unit as this is a state requirement. <em>(All students must have their CPR skills evaluated by a certified CPR instructor. This is a state requirement.) Appendix A</em></td>
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<tr>
<td>Sept. 6, Mon.</td>
<td>5 Begin Module 2 - Anatomy of the airway and the mechanics of respiration.</td>
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Practical Use of Airway Adjuncts; demonstrate and explain the uses of oral and nasopharyngeal airways; suction units and techniques of suctioning; types of O2 tanks and oxygen delivery devices; the use of the pock mask and BVM, power assisted ventilators, use by Basic EMT with ALS airway devices. Demonstrate the correct application for each in preparation for the skills tests. CPR test.

(Skill Station 3, 5A, 5B) Chapters 9, 10

Sept. 8, Wed. 6 Begin Module 3 – Discuss the components of Scene Size-up; Continue with airway presentation which is to be followed with student use of the airway equipment and practice of oxygen therapy equipment. Students need to bring their own pocket masks. Practical Review. Chapter 11

Sept. 13, Mon 7 Life Span and Pathophysiology. Infectious diseases and blood borne pathogens Chapters 7, 8, 24

Sept. 15, Wed. 8 Primary Assessment; Ongoing Pt. Assessment; discuss the four vital signs and demonstrate how to perform and obtain each; definition of baseline set of vitals; other diagnostic signs such as pupil reactions & skin color. May wish to bring own stethoscope & Bp Cuff. Practical review. Chapters 12, 13

Sept. 18, Sat. 9 & 10 Lifting & Moving; this lesson will involve hands on participation by the class in two-person and three-person lifting; moving non-cervical injured patients; use of back boards; spinal immobilization and moving to the backboard; use of spiders vs. straps; demonstration of the scissors or scoop and the use of the Stokes basket. Class may go beyond 12:00 but no later than 1:00. Chapter 3

Sept. 20, Mon. 11 Secondary assessment for both the trauma and medical patient; Acronyms used during secondary assessment; Critical Thinking and Decision Making. Chapter 14, 15

Sept. 22, Wed. 12 Patient Communications & Radio Procedures; Documentation and Writing the Pre-hospital Care Report (PCR) and ePCR. Discuss NEMSIS and data requirements. Chapter 16, 17

Sept. 27, Mon. 13 Practical skills review of Back Boarding; Use of Oxygen Therapy Equipment; PCR Documentation; Primary Assessment and taking of Vital Signs for the first 2 hours. (Skill Station Practice). Unit TEST 1. This is an all-multiple choice question test. Test will be done online. Test completion due Sept 29.

Sept. 29, Wed. 14 Begin Module 4 – Medical Emergencies I – Respiratory illnesses such as emphysema, chronic bronchitis, asthma & hyperventilation. Begin Cardiac Emergencies – Signs & Symptoms of heart attack, risk factors, anatomy of the heart, electrical activity of the heart, discuss normal sinus, Ventricular Fibrillation and Ventricular Tachycardia and the significance for the use of the AED. Chapters 19, 20

Oct. 2, Sat. 15 & 16 Morning session: Medical Emergencies II – Conclude cardiovascular emergencies. Include discussions on CHF, AICD, pacemakers, and causes of
irregular pulses. Demonstrate the LUCUS tool and Auto Pulse.  
**Chapter 20, 21**

- **Afternoon session:** Poisonings, drugs and alcohol; Behavior Emergencies. Anaphylaxis (allergic reactions), Narcan administration with student skills. **Chapters 23, 25**

Oct. 4, Mon.  17  Will Cover Diabetes, causes of Altered Mental Status & Stroke **Chapter 22**

Oct. 6, Wed.  18  **Medical Emergencies III** – Environmental Emergencies, Cold water drownings, Abdominal emergencies. **Chapters 26, 35**

Oct. 11, Mon.  19  Obstetrics, Emergency Childbirth & Childbirth Complications. View Video on Childbirth. **Chapter 36**

Oct. 13, Wed  20  Geriatric Emergencies both medical and trauma

Oct. 16, Sat.  21 & 22  **Morning:** Module 6 - Pediatric Emergencies - Medical and Trauma emergencies. Child Abuse. Car seats, Pedi-boards

**Afternoon:** Lecture and demonstration of nebulized albuterol, regional protocols, protocol exam & practical skills. To include aspirin administration protocol.

Oct. 18 Mon.  23  General pharmacology; Hematological and Renal emergencies; Behavior & Psychological Emergencies. **Chapters 18, 27, 28**

Oct. 20, Wed.  24  **Begin Module 5** – Bleeding Emergencies & Shock; Soft Tissue Injuries; Burns. Discuss MAST Trousers; Application of dressings and bandages; and techniques to Control bleeding. Practice bandaging, use of tourniquet, bleeding control and treatment of shock. Patients with special needs. **Unit TEST 2.** This test will cover all material on medical emergencies and done online. Test will be due Mon. Oct. 25 **Chapter 29, 30, 37**

Oct. 25, Mon.  25  Injuries to the Head, Neck, Spine, Face & Eye; anatomy and physiology of the nervous system; signs and symptoms of spinal fractures; general rules of caring for the patients with spine injuries and injuries to the face and cranium. Demonstrate the application of cervical collars, KED and application of immobilization to a backboard. **Chapter 33**

Oct. 27, Wed.  26  Injuries to the Chest, Abdomen, & Genitalia; parts & functions of the abdominal organs, locations, digestive & genitourinary systems; chest, abdomen, & genitalia injuries and treatments. **Chapter 31**

Oct. 30, Sat  27 & 28  **Morning:** Principles of Musculoskeletal Care: Anatomy and physiology of the musculoskeletal system; definitions and types of fractures and dislocations; examination for injuries; techniques of immobilizing fractures, sprains, and dislocations. This lecture
will encompass both the upper and lower extremities, demonstration of splinting of long bones, dislocations and traction splinting; show X-rays of fractures.

**Chapter 32**

**Afternoon:** **Practice skills session** on splinting of long bones, traction splinting, sprains and dislocations.

***Ride along completion check. Mid-semester student evaluation review***

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<th>Date</th>
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<tr>
<td>Nov. 1, Mon. 29</td>
<td>Patient Assessment of the trauma patient and student practice assessment on a traumatized patient; multiple systems trauma. <strong>Chapters 15 (pages 418-450), 34</strong></td>
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<td>Nov. 3, Wed. 30</td>
<td>Pt. assessment lab of the trauma patient continued.</td>
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<td>Nov. 6, Sat. 31 &amp; 32</td>
<td>Module 7 - Vehicle Extrication – Location yet to be determined. All participants MUST be in turnout gear in order to participate in using the extraction tools and tearing apart the vehicles. Extra turnout gear will be available for those who do not have any. Afternoon session includes rapid extrication and application of the new Spinal Restriction Protocols to remove patients from the wrecked car. This is an all-day session that concludes around 3pm. Weather will dictate if this class is done indoors or outdoors. <strong>Chapter 40</strong></td>
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<tr>
<td>Nov. 8, Mon. 33</td>
<td>Patient assessment of the medically ill patient and practice to identify the medical problem and to treat as such. <strong>Chapter 15 (pages 403-419)</strong></td>
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<td>Nov. 10, Wed. 34</td>
<td>Patient Assessment of the medical patient continued.</td>
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<td>Nov. 15, Mon. 35</td>
<td>Ambulance Operations -- Safe Operations, Vehicle &amp; Traffic Laws pertaining to Ambulance Driving, Helicopter Rescue, Stress Management (CISD) <strong>Chapter 38</strong></td>
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<td>Nov. 22-26</td>
<td>Thanksgiving week. No classes,</td>
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<td>Nov. 17, Wed. 36</td>
<td><strong>Practical Skills Review</strong> – Random Skills includes Airway adjuncts, suctioning, O2 administration; Joint injury immobilization; BVM &amp; Apneic patient (Skill Stations 4, 5, 6B)</td>
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<tr>
<td>Nov. 29, Mon. 37</td>
<td><strong>Practical Skills Review</strong> – Cardiac &amp; AED; Long bone fractures; traction splinting (Skill Stations 3, 6)</td>
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**Student Requirements to be able to take the state practical skills exam:**

***THESE ARE STATE REQUIREMENTS TO ENTER THE PRACTICAL SKILLS EXAM***

1. Complete the blood borne pathogen test (student file)
2. CPR skills completion and passing a written CPR test (student file)
3. 10 hours ride time in an ambulance – (minimum of 6 calls) completed by Dec. 1 (student file)

4. Co-requisites completed - NIMS and Hazmat Awareness completed and due by Oct 2 (student file)

Dec. 1, Wed. 38  **Practical Skills Review**: Both patient assessment skill stations. *(Skills Station 1,2)*

Dec. 4, Sat. 39  **NYS EMS Final Practical Skills Exam** – class will test at two times, 9am and 1pm. Those who need to retest a station a third time will do so Monday evening

Dec. 6, Mon. 40  Mass Casualty Incidents (MCI); Smart Triage; Hazardous Materials Mass Destruction.  *Chapters 39*

Dec. 8, Wed. 41  Hazardous Material Incidents (video tape); EMS Response to Terrorism.

**Unit TEST 3** - This test will cover the remaining chapters in the book not tested on the previous two-unit tests. We will go over this test during the first night of test question review Test will be online. Test completion will be due Dec. 13.

**Chapter 41**

Dec. 13, Mon. 42  Test review questions for the final exam.  Part I

Dec. 15, Wed. 43  Test Question Review – Part II

Dec. 16, Thurs. 44  End of class. Open date for make-up, if necessary, each student will receive an email from the PSI when eligible to register for the NYS final written exam at a PSI testing center or at home with certain requirements that have to be met.

**State Requirements to take the state written exam**

1. Pass the practical skills exam