

The material enclosed is provided to answer questions regarding your Emergency Medical Technician Intermediate Course.

Our goals are to prepare all students for Utah and National Registry EMT Intermediate Certification.

## **Description**

The Emergency Medical Technician Intermediate Class is the second level course for Emergency Medical Services, Fire Fighting and most other Medical Fields.

This course teaches the necessary skills for successful completion of the Utah State and National Registry of EMT (NREMT) 1985 requirements for EMT Intermediate level certification. Successful students should be able to pass the Intermediate Level State and NREMT Manipulative skills and written exams.

During and at the completion of the course the EMT I student must demonstrate competency handling emergencies utilizing all Basic and Advanced Life Support equipment and skills in accordance with all behavioral objectives in the DOT/EMT Basic and EMT-I curriculums, to include endotracheal intubation, advanced pediatric care, manual and automated external defibrillation and other listed course skills.

This course will prepare the student for advancement to the third level of EMT, Paramedic. And in many cases is a prerequisite to the EMT Paramedic course.

## **Goals**

Upon successful completion of this course students should understand and have mastered all EMT-Intermediate concepts and skills as set forth by the US DOT and Utah BEMS EMT-Intermediate (1985) Curriculum. The student will be prepared for EMS Intermediate Utah State Certification and NREMT EMT-Intermediate (1985) Certification.

The US DOT and Utah BEMS topics that will be covered and reviewed with Lecture and Practical application are:

- Foundations of EMT I
- Human Anatomy & Physiology
- Patient Assessment
- Medical Emergencies
- Advanced Airway
- Trauma
- Pharmacology
- Medication Administration
- Cardiac Monitoring
- Pediatric Emergencies



## **Required Text**

1. Shade, Bruce/Rothenberg, Mikel/Wertz, Elizabeth/Jones, Shirley/Collins, Thomas. Mosby's EMT-Intermediate, 2<sup>nd</sup> Ed. Mosby Inc. (2002). ISBN: 0323012906
2. Shade, Bruce R. Mosby's Workbook to accompany EMT-Intermediate Textbook, 2<sup>nd</sup> Ed. Mosby Inc. (2002) ISBN: 0323012450
3. NAEMT, PreHospital Trauma Life Support, 5<sup>th</sup> Ed. Mosby Inc. (2003), ISBN: 032302744X
4. Pediatric Education for Prehospital Professionals, American Academy of Pediatrics (2000), Published by Jones and Bartlett Publishers, ISBN #0763712191.

## **Recommended & Helpful Text**

1. American Geriatrics Society/National Council of State Emergency Medical Services Coordinators. Geriatric Education for Emergency Medical Services (GEMS). Jones and Bartlett Publishing (2003)
2. Cherry, Richard A./Bledsoe, Bryan E. Drug Guide for Paramedics. Prentice Hall (2001). ISBN: 0-13-028798-9.
3. Dillman, Peter A. EMS Medication Field Guide, 2<sup>nd</sup> Ed. Jones and Bartlett Publishing (2001). ISBN: 076371959.
4. Mack, Dan/Wesley, Keith. Mosby's EMT-Intermediate and Paramedic Certification Preparation and Review. Mosby Inc. (2004). ISBN: 0323019277

## **Job Description-EMT Intermediate**

Responds to emergency calls to provide efficient and immediate care to the critically ill and injured, and transports the patient to a medical facility. After receiving the call from the dispatcher the EMT Intermediate drives the ambulance to address or location given, using the most expeditious route, depending on traffic and weather conditions. The EMT Intermediate will observe traffic ordinances and regulations concerning emergency vehicle operation. Upon arrival at the scene of crash or illness, the EMT Intermediate parks the ambulance in a safe location to avoid additional injury. Prior to initiating patient care, the EMT-Intermediate will also size-up the scene to determine that the scene is safe, the mechanism of injury or nature of illness, total number of patients and to request additional help, if necessary. In the absence of law enforcement, creates a safe traffic environment, such as the placement of road flares, removal of debris, and re-direction of traffic for the protection of the injured and those assisting in the care of injured patients.

Determines the nature and extent of illness or injury and establishes priority for required emergency care. Based on assessment findings the EMT Intermediate will render emergency medical care to adult, infant and child, medical, and trauma patients. Duties include but not limited to, opening and maintaining an airway, ventilating patients, and cardiopulmonary resuscitation, including use of automated and manual external defibrillators. The EMT Intermediate provides pre-hospital emergency medical care of simple and multiple system trauma such as controlling hemorrhage, treatment of shock (hypoperfusion), intravenous therapy,



bandaging wounds, immobilization of painful, swollen, and deformed extremities. Medical patients include: Assisting in childbirth, management of respiratory, cardiac, diabetic, allergic, behavioral, and environmental emergencies, and suspected poisonings. The EMT Intermediate searches for medical identification emblem as a clue in providing emergency care. Additional care is provided based upon assessment of the patient differential diagnosis and obtaining historical information. These interventions include assisting patients with prescribed medications, including sublingual nitroglycerin, epinephrine auto-injectors and hand-held aerosol inhalers. The EMT Intermediate will also be responsible for administration of oxygen, oral glucose and activated charcoal.

The EMT Intermediate reassures patients and bystanders by working in a confident, efficient manner. The EMT Intermediate avoids mishandling and undue haste while working expeditiously to accomplish the task.

Where a patient must be extricated from entrapment, the EMT Intermediate assesses the extent of injury and gives all possible emergency care and protection to the entrapped patient and uses the prescribed techniques and appliances for safely removing the patient. If needed, radios the dispatcher for additional help or special rescue and/or utility services. Provides simple rescue service if the ambulance has not been accompanied by a specialized unit. After extrication, provides additional care in triaging the injured in accordance with standard emergency procedures.

The EMT Intermediate complies with regulations on the handling of the deceased, notifies authorities, and arranges for protection of property and evidence at scene.

The EMT Intermediate lifts stretcher, placing in ambulance and seeing that the patient and stretcher are secured, continues emergency medical care.

From the knowledge of the condition of the patient and the extent of injuries and the relative locations and staffing of emergency hospital facilities, the EMT Intermediate determines the most appropriate facility to which the patient will be transported, unless otherwise directed by medical direction. Reports directly to the emergency department of communications center the nature and extent of injuries, the number being transported, and the destination to assure prompt medical care on arrival. The EMT Intermediate identifies assessment findings which may require communications with medical direction for advice and for notification that special professional services and assistance be immediately available upon arrival at the medical facility.

The EMT Intermediate constantly assesses patient en route to emergency facility, administers additional care as indicated or directed by medical direction.

The EMT Intermediate assists in lifting and carrying the patient out of the ambulance and into the receiving facility.



The EMT Intermediate reports verbally and in writing their observation and emergency medical care of the patient at the emergency scene and in transit to the receiving facility staff for purposes of records and diagnostics. Upon request the EMT Intermediate provides assistance to the receiving facility staff.

After each call the EMT Intermediate restocks and replaces used linens, blankets and other supplies, cleans all equipment following appropriate disinfecting procedures, makes careful check of all equipment so that the ambulance is ready for the next run. The EMT Intermediate maintains ambulance in efficient operating condition. In accordance with local, state or federal regulations the EMT Intermediate decontaminates the interior of the vehicle after transport of patient with contagious infection or hazardous materials exposure.

The EMT Intermediate determines that vehicle is in proper mechanical condition by checking items required by service management. The EMT Intermediate maintains familiarity with specialized equipment used by the service.

The EMT Intermediate attends continuing education and refresher training programs as required by employers, medical direction, licensing or certifying agencies.

The EMT of all levels will meet the qualifications within the Bureau of EMS Functional Position Description.

### **Qualifications**

To be certified as an EMT/EMT-I/EMT-IA/EMT-P, an individual shall:

1. Submit a completed application form to the Department.
2. Be 18 years of age or older.
3. Complete a Department approved EMT course.
4. Display technical competence during field and clinical training.
5. Successfully complete the Department written and practical examinations.
6. Those advancing to advanced EMT levels in Utah must have at least one year of EMT Basic certification level.

### **Description**

Generally, the knowledge and skills required show the need for a high school education or equivalent. Ability to communicate verbally; via telephone and radio equipment; ability to lift, carry, and balance up to 125 pounds (250 with assistance); ability to interpret written and oral instructions; ability to use good judgment and remain calm in high-stress situations; ability to work effectively in an environment with loud noises and flashing lights; ability to function efficiently throughout an entire work shift; ability to calculate weight and volume ratios and read small print under life-threatening time constraints; ability to read and understand English language manuals and road maps; accurately discern street signs and address numbers; ability to



interview patient, family members and bystanders; ability to document, in writing, all relevant information in prescribed format in light of legal ramifications of such; and ability to converse in English with co-workers and hospital staff as to patient status. Good manual dexterity, with ability to perform all tasks related to highest quality patient care. Ability to bend, stoop and crawl on uneven terrain; and the ability to withstand varied environmental conditions such as extreme heat, cold, and moisture. Ability to work in low light, confined spaces and other dangerous environments.

## **Most Frequently Asked Questions & Important Information**

**This will answer a lot of frequently asked questions during the course of your EMT Intermediate Program.**

**The following items have to be completed by the end of your course to be recommended for State Certification:**

1. **Attendance**-All Lectures & Practical classes attended (If you miss you must make up at another approved class-calendar located outside coordinator office)
2. **Skills pass off sheet** with all areas signed or stamped. You must perform the skill in front of the instructor who will be signing. If you forget your skills pass off sheet, this may be counted as an absence for this class period.
3. **10 clinical hours** - The Clinical times will be provided for you at a variety of locations, which may include: Provo Fire Department, Utah Valley Regional Medical Center, Mountain View Hospital, U of U hospital, Primary Children's, LDS, Salt Lake Regional, Alta View Hospital, Murray Fire Department, South Salt Lake Fire Department & possibly other various locations. Shift times are typically set up in 5 hour shifts. Calendars to sign up will be available during the first two weeks of class. Upon completion of your clinical time your clinical time must be signed off on the clinical letter or (if approved in advance by Kirk) may be signed on your skills pass off sheet, by your clinical supervisor (whomever you are working with).
4. **Workbook must be completed as indicated by the coordinator**-This will be checked periodically during the course of your class and these checks will be included in your grade. Failure to have your workbook present for in class checks will result in ZERO points being awarded for this section of your grade. **NO MAKE UPS ALLOWED!**
5. **Medical/Trauma/Pediatric Final**- Each scenario must be passed with all critical criteria met and a score of 80% or better, this is part of your grade.
  - **1<sup>st</sup> Attempt= "A", 2<sup>nd</sup> Attempt = "B", 3<sup>rd</sup> Attempt = "C" Grade for each Medical/Trauma/Pediatric Scenario Final**
6. **Random Skill**-You will have to show proficiency in all skills; a random skill pass off will be performed at the end of the semester, this is part of your grade.



7. **Testing**-Written & practical exams during the course of class must be passed with an 80% or better. You will have daily tests. These exams will be written as well as could be practical. Some written tests will be multiple choice, True/ False, Fill in the Blank (Your TTP's), or matching. Your exams will directly correlate the material previously learned. The Mid Term, Pre Final and Final Exams may have Test Reviews prior to administration of these exams; no other exams will have review sessions available. Final Exams are NOT available for review.
8. **Required Test Scores**- Students that do not score at least an 80% on tests will be required to retake the exam to qualify for certification at any level. The retest score, if at or over 80%, will be recorded on the student's grade at an 80% regardless of the score.
9. **Final Written Exam**-This final is 200 Questions, you must score an 80% or better to be recommended to Utah BEMS and/or NREMT for testing. If you do not pass the first attempt you will be required to retake the final until you obtain 80% (if you desire certification with Utah or NREMT.)
10. **FEES**-All fees must to be paid in full prior to being recommended for State Certification. This includes all course and college fees, BCI and BEMS fees, equipment purchased, etc. BEMS fees are due within one week of the beginning of class. If your fees are not paid to BEMS by this date, you may complete the class, but you will not be testing with Utah for EMT certification.
11. **NREMT TESTING & FEES**-NREMT testing will be available at the completion of the course. Applications and fees (\$60 for EMT B, \$140 for EMT I or P) must be submitted prior to the testing date. The date will vary depending upon the level requested for testing.
12. **Written Research Paper**-Each student will write during the semester a research paper on a topic related to EMS. The topic for the paper will be assigned/approved by the coordinator. Specific due dates for each section of the research project will be announced by the coordinator.
13. **Final Check**-The last day of class when all paperwork is due, you will need to have a final review with the course coordinator (or the instructor Kirk assigns to this job) to ensure all paperwork has been turned in.
14. **Grades**-Course grades may be available upon completion of the course if appropriate. Typically at the final check out with the course coordinator the student will be told of their overall score for the course and expected grade. This grade may change upon final review of the course coordinator and staff.
15. **Extra Credit**-At the course coordinator's discretion extra credit may be given during the course for extraordinary work or completion of specific extra tasks. Extra Credit is NOT to be expected nor is it to be viewed as a way to pass the course. Typical extra credit will count toward a specific test only and not be kept in a bank.

➤ **Course Pre-requisites:**

- Current certification as an EMT Basic in Utah.



- Certified as an EMT Basic for a minimum of one year.
- Current CPR certification.

➤ **Dress Standards:** for Classroom, Clinical & Practical Times

- You need to come to class prepared for practical skills each day.
- ***Classroom attire:*** *Is your choice* providing it follows the classroom dress code section in this student handbook. However remember to be respectful of others that will be performing assessments on you. **ALSO PLEASE** remember what Kirk told you during orientation and the EMT Program dress standards for classroom time.
- ***Clinical Dress Standards:*** You **MUST** follow the class dress code. The list below is for a reminder only.
  1. YOU NEED TO ARRIVE ON TIME
  2. You need to arrive with a NEAT & CLEAN appearance.
  3. If you have long hair your hair needs to be pulled back.
  4. Dress Shirt - No tank tops, T-shirts or shirts that are torn.
  5. Dress Pants -No Blue Jeans- You can wear Black, White or other colored jeans. Slacks or Docker style pants are preferred.
  6. Shoes-No open toed shoes are to be worn to any clinical settings.
  7. All attire needs to be clean and neat in appearance.
  8. You need to have your student Identification Badge.
  9. It is suggested that you bring your own stethoscope and a watch with a second hand. Also bring study materials to review if there are no patients or calls.
  10. Please review your EMT Dress Policy for full details of dress code for clinical experiences.

➤ **CLASSROOM DEMEANOR:**

- Remember that this course is a bachelor level course and thereby more is expected of you.
- Sleeping during class time, talking while an instructor is teaching, answering cell phones/pagers/text messaging while in class is prohibited.
- Classroom participation points are part of the students grade and these points are adversely affected by being disrespectful to other students or instructors while in or out of the classroom environment.



- You will be expected to complete a variety of EMS skills during this course. The student is to follow the instructor's directions at all times, this will avoid injury during class times. Students are also expected to participate in class activities, those who chose to not participate will have their grades affected negatively.

### **BUREAU OF EMERGENCY MEDICAL SERVICES TESTING**

- Upon completion of EMT Intermediate requirements and when you have been recommended by your instructor you will qualify for State Bureau of EMS testing.
  - This test is comprised of a written exam based on the DOT and BEMS objectives.
  - Please note that successful completion of the BEMS written exam may be added to your grade.
- Your **Written** Exam is scheduled, by you, at the completion of class.
  - To schedule your written test:



- You call the Bureau of EMS @ 1-801-538-6435 option #1
  - Advise them you need to schedule your initial written exam for Intermediate Certification.
  - They will advise you of the locations available to test.
    - SLC at BEMS office
    - Orem at UVSC/note there is an \$8 fee from UVSC to test in the testing center and you **MUST** schedule with BEMS before testing.
  - You will be sent a confirmation notice of testing from the Bureau
  - You will need to bring a photo ID with you to your examination.
  - The test is comprised of 150 written questions that are Multiple Choice and True/False.
  - You will be given 3 hours to complete your exam.
- Good Luck!
  - The testing you will be required to do for State Certification is the end result of a semester of preparation by your instructors. You will be well prepared for this exam provided you have followed and completed ALL class/course requirements. As long as you meet the requirements for State Testing you will have prepared yourself well for testing.
  - **IF YOU FAIL TO SHOW ON THE DATE ASSIGNED WITHOUT NOTIFYING BEMS AT LEAST 72 HOURS IN ADVANCE YOUR BEMS FEES WILL BE FORFEITED!**
  - Good Luck!