

Emergency Medical Technician –Basic
Student Learning Outcome
Spring 2010

Collaboratively as a department I was able to congregate the appropriate statistics to complete the SLO requirements.

Assisting in this process:

Dr. Jim Holbrook

Gary Reese

Brain Strain

Karl Nicholson

John Commander

Eileen Verosik

EMT-Basic

Dialog

05/06/2010

Present; Dr. Holbrook, Karl Nicholson, Brian Strain, Gary Reese

Start Time: 0900

Agenda

1. Program attrition
2. Quizzes
3. Midterm
4. Final Exam
5. New Text
6. Skills instructor handbook

Program Attrition;

The dialogue pertaining to the attrition factor of the Emergency Medical Technician Basic program begun by reviewing the minutes from a prior meeting with Keith Wurtz and Michelle Riggs.

After collecting data over the past two years and Keith and Michelle completing their research project, it became clear what our next step was going to be. The prerequisite validation study that was completed displayed evidence that by implementing a prerequisite (READ 078) into the EMT-B curriculum would lower our attrition by 9.2 percent.

Therefore as a department we concurred that by adding this to the program would be beneficial for the outcome of our students.

I further made contact with the curriculum committee, counseling, admission and records, and the English department to assist in the launching process of this prerequisite. We set spring 2011 as the target date to implement into the program.

Quizzes, Midterm, Final exam:

After reviewing the validations of all test given in the four (4) sections offered, as a department we discovered that even though we all take the same exact quizzes, midterm and final, we all exemplified the same weak area in the testing process. Deciding if the weakness was instructional, test comprehension, or the level in which the test is written at came up for discussion.

After a brief discussion, it was obvious that some of the troubled questions were lectured base and needed to be addressed by the instructor of record. To resolve this issue we decided to create a clearer lesson plan with a set of objectives to follow during the lecture portion of the program.

05/26/2010

However, there were some questions needing revision and some thrown out.

The changes were made

New Text:

Revising our program to meet the internal and external requirements is an ongoing challenge. A new text has been written by the *American Academy of Orthopedic Surgeons* meeting the educational standards set forth by the National Registry and State. Therefore it was unanimous that a new text would be added and the revision of the EMT-B begins.

The text has been ordered and the ground work started. The implementation of the new text is set for the spring of 2010.

With the national registry changes in their cognitive exam commencing in spring of 2010, our students will be prepared for the new challenges.

Skills Instructor Handbook

After reading all evaluations written by the spring 2010 semester students, the weak link was obvious, it was the skills instructors and their consistency.

Therefore, a regulations, and policy manual was written. This manual will set the guidelines in which a skills instructor must follow within the lab portion of the program.

A meeting is set for June 1st for all instructors to receive their manual and go over its contents. To bring consistency in the lab is our goal for the fall 2010 semester

At the June 1st meeting another date will be set for a mandatory training session. Receiving Perkins funds to support this area, we are able to compensate the skills instructors for their training.

The rationale behind this is to bring consistency and structure in all three (3) sections of the EMS-020 program in the fall semester.

In closing, through the use of Student Learning Outcomes and channeling the negatives into the path of success, we continue to improve our program and in return meet the industry needs of having highly trained Emergency Medical Technician – Basic to serve their communities.

Meeting was adjourned at 1800

EMT – Basic quizzes are reviewed and revised each semester, using information from all sections. As a discipline we look at the most frequently missed questions, review its content, what we are measuring, terminology and reading level that is being used. With this information as a discipline we restructure specific items.

The mid-term is also reviewed and revised using the same process.

Final exam is comprehensive and based on a content analysis from the primary faculty.

The program has a set minimum competency for the midterm exam established at 80% overall, and demonstrating competency in obtaining a set of vital signs. Following these two measurements the student is advanced to start their field and clinical rotation.

In order to meet external regulations each student must document the assessment of five patients during this real world application.

Upon the completion of the program, the student then applies to take a National Registry computer-based exam. This computer generated exam measures six (6) categories.

1. Airway
2. Cardiology
3. Trauma Patient
4. Medical Patient
5. OB/Pediatric
6. Emergency Medical Services/Operations

Using information from National Registry, we are able to review weak areas within the program and make the necessary revisions.

Another form of evaluating is the student's psychomotor learning outcome using the National Registry Practical testing format. This point valued system identifying specific values for each intervention treating medical and trauma patients.

EMS – 021

Blood borne and Airborne Pathogens course is written by the National Safety Council and we use the established guidelines using both pretest and post test information. The program assessment also includes both course and instructor evaluation.

EMS – 022

American Heart Association basic life support course

We use the established guidelines using both pretest and post test information. The program assessment also includes both course and instructor evaluation.

EMS – 023

First Responder awareness is a course that is written by the California Specialized Training Institute. We use the established guidelines using both pretest and post test information. The program assessment also includes both course and instructor evaluation.

EMS – 105

Patient Assessment course is measured through a variety of quizzes and final. The students are measured on their ability to recognize and treat the ill and injured patient in an appropriate amount of time. They need to demonstrate competency in differential diagnosis, stating possibilities/probabilities and treating appropriately.

This process is done through hands on interventions with live patients playing the role in ill and traumatic situations.

EMS – 921

Recertification / Continuing education course

This course is written in conjunction with the National refresher course guide lines.

Test Summary

EMS 020

Date: Spring Semester 2010

Instructor of record: Dr. Holbrook

Section 1

Number of student's: 45 enrolled, 2 dropped at orientation leaving 43 starting the program

Cognitive Midterm Exam: 31 students took the mid-term

Must pass with 75% or better and an overall 80% in the program

Passed Midterm	Failed Midterm	Pass midterm but did not maintain an 80% or better overall in program	Passed midterm and maintained an 80% or greater overall
26	5	7	19

Discussion: 2 students did not attend orientation, 7 students dropped prior to mid-term, 5 students did not complete their immunization prior to mid-term

Practical Final Exam

Must obtain an 80% or greater in nine (9) of the thirteen (13) skills to have the retest option

Unsuccessful in second attempt constitutes a fail in the program

Unsuccessful in greater than four (4) skills constitutes a fail in the program

Passed	19	Fail	0	Retest	Pass/Fail

Discussion:

Cognitive Final

Must pass with an 80% or greater and an overall 80% in the program

Passed Final	Failed Final	Pass final but did not maintain an 80% or better overall in program	Passed final and maintained an 80% or greater overall
19	0	/	19

Discussion: The purpose of this writing is to document the student outcome at the final evaluation

Forty-five students registered for the course, two (2) did not attend the mandatory orientation meeting Seven (7) dropped prior to midterm, five (5) students did not provide medical pre-screening required and did not take the midterm.

Thirty-one (31) students took the midterm and five (5) students scored below the 75% mark. And a total of twelve students, including the five listed, did not have the overall points necessary to continue.

Nineteen (19) students were successful in the program

Test Summary

EMS 020

Date: Spring Semester 2010

Instructor of record: Karl Nicholson

Section 2

Number of student's: 45 enrolled, 3 dropped at orientation leaving 40 starting the program

Eight (8) dropped after the second class

Six (4) students dropped prior to taking the mid-term

Two (2) students did not provide medical pre-screening required and did not take the midterm.

Cognitive Midterm Exam: 26 students took the mid-term

Must pass with 75% or better and an overall 80% in the program

Passed Midterm	Failed Midterm	Pass midterm but did not maintain an 80% or better overall in program	Passed midterm and maintained an 80% or greater overall
17	5	4	17

Discussion: 2 students did not attend orientation, 7 students dropped prior to mid-term, 5 students did not complete their immunization prior to mid-term

Practical Final Exam

Must obtain an 80% or greater in nine (9) of the thirteen (13) skills to have the retest option

Unsuccessful in second attempt constitutes a fail in the program

Unsuccessful in greater than four (4) skills constitutes a fail in the program

Passed	Fail	Retest	Pass/Fail
17	0		

Discussion:

Cognitive Final

Must pass with an 80% or greater and an overall 80% in the program

Passed Final	Failed Final	Pass final but did not maintain an 80% or better overall in program	Passed final and maintained an 80% or greater overall
17	0	0	17

Discussion: The purpose of this writing is to document the student outcome at the final evaluation

Forty-five students registered for the course, two (3) did not attend the mandatory orientation meeting
 Twelve (12) dropped prior to midterm, two (2) students did not provide medical pre-screening required and did not take the midterm.

Twenty-six (26) students took the midterm and five (5) students scored below the 75% mark. And a total of nine students, including the five listed, did not have the overall points necessary to continue.

Nineteen (17) students were successful in the program

Test Summary

EMS 020

Date: Spring Semester 2010

Instructor of record: Gary Reese

Section 3

Number of student's: 45 enrolled

Cognitive Midterm Exam: 40 students took the mid-term

Must pass with 75% or better and an overall 80% in the program

Passed Midterm	Failed Midterm	Pass midterm but did not maintain an 80% or better overall in program	Passed midterm and maintained an 80% or greater overall
30	7	3	30

Discussion: 4 students dropped prior to mid-term, plus 1 student for attendance

Practical Final Exam

Must obtain an 80% or greater in nine (9) of the thirteen (13) skills to have the retest option

Unsuccessful in second attempt constitutes a fail in the program

Unsuccessful in greater than four (4) skills constitutes a fail in the program

Passed	Fail	3 Retest	Passed
27	0		

Discussion: all students met and exceeded the internal and external standards

Cognitive Final

Must pass with an 80% or greater and an overall 80% in the program

Passed Final	Failed Final	Pass final but did not maintain an 80% or better overall in program	Passed final and maintained an 80% or greater overall
27	3	0	27

Discussion: The purpose of this writing is to document the student outcome at the final evaluation

Forty-five students registered for the course, five (5) dropped prior to midterm

Forty (40) students took the midterm, seven (7) students scored below the 75% mark and three (3) for overall points necessary to continue.

Thirty (30) students took the final cognitive exam, three (3) scored below the 80%

27 students were successful in the program

Test Summary

EMS 020

Date: Spring Semester 2010

Instructor of record: Brain Strain

Section 4

Number of student's: 45 enrolled, 2 dropped at orientation leaving 43 starting the program

Cognitive Midterm Exam: 12 students dropped due to points prior to taking the Midterm, 31 students took the mid-term

Must pass with 75% or better and an overall 80% in the program

Took M/T	Passed Midterm	Failed Midterm	Pass midterm but did not maintain an 80% or better overall in program	Passed midterm and maintained an 80% or greater overall
31	16	9	6	16

Discussion: 2 students did not attend orientation, 12 students dropped prior to mid-term, 16 out of 31 passed midterm. Sixteen moved on to take the final. Four dropped prior to taken the final allowing 12 to take it.

Practical Final Exam

Must obtain an 80% or greater in nine (9) of the thirteen (13) skills to have the retest option

Unsuccessful in second attempt constitutes a fail in the program

Unsuccessful in greater than four (4) skills constitutes a fail in the program

Passed	11	Fail	0	Retest	Pass/Fail
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Discussion:

Cognitive Final

Must pass with an 80% or greater and an overall 80% in the program

Took Final	Passed Final	Failed Final	Pass final but did not maintain an 80% or better overall in program	Passed final and maintained an 80% or greater overall
12	11	1	0	11

Discussion: The purpose of this writing is to document the student outcome at the final evaluation

Forty-five students registered for the course, two (2) did not attend the mandatory orientation meeting Seven (12) dropped prior to midterm Thirty-one (31) students took the midterm and nine (9) students scored below the 75% mark. And six was dropped because of points. Four students dropped prior to taking the final exam allowing twelve to take the exam. Out of the twelve one failed

Test Summary

Course EMS 021

Preventing Disease Transmission for Emergency Medical Technicians

Date: 5/19/2010

Evaluator/Instructor of record: Eileen Verosik

Section: 01

Number of student's: 30

Cognitive written exam

Must obtain an 80% or greater to pass

Pass 30 /30

Fail 0

Expectations were met. No changes needed in the course

Students met the standards set by the National Safety Council and OSHA blood-borne pathogens training requirements for EMS and Public safety workers.

Test Summary

Course EMS 021

Preventing Disease Transmission for Emergency Medical Technicians

Date: 5/2010

Evaluator/Instructor of record: Eileen Verosik

Section: 02

Number of student's: 33

Cognitive written exam

Must obtain an 80% or greater to pass

Pass 33 /33

Fail 0 /33

Discussion:

Expectations were met. No changes needed in the course

Students met the standards set by the National Safety Council and OSHA blood-borne pathogens training requirements for EMS and Public safety workers.

Test Summary

Course EMS 021

Preventing Disease Transmission for Emergency Medical Technicians

Date: 5/2010

Evaluator/Instructor of record: Eileen Verosik

Section: 03

Number of student's: 33

Cognitive written exam

Must obtain an 80% or greater to pass

Pass 33 /33

Fail 0/33

Discussion:

Students met and exceeded all expectation of this course. No changes required

Students met the standards set by the National Safety Council and OSHA blood-borne pathogens training requirements for EMS and Public safety workers.

Test Summary

Course EMS 021

Preventing Disease Transmission for Emergency Medical Technicians

Date: 5/2010

Evaluator/Instructor of record: Eileen Verosik

Section: 04

Number of student's: 32

Cognitive written exam

Must obtain an 80% or greater to pass

Pass 32 /32

Fail /

Expectations were met. No changes needed in the course

Students met the standards set by the National Safety Council and OSHA blood-borne pathogens training requirements for EMS and Public safety workers.

Test Summary

Course EMS 022

Date: 5/2010

Evaluator/Instructor of record: Karl Nicholson

Section: 1

Number of student's: 38

Practical Exam

1 Rescuer CPR		2 Rescuer CPR		1 and 2 Rescuer Infant CPR	
P, 38 - NR, P2, - F,	38	P, 38 - NR, P2, - F,	38	P, 38 - R, P2, - F,	38

Cognitive written exam

Must obtain an 84% or greater to pass

Initial attempt with Version "A"

Second attempt after remediation Version "B"

Passed	38	Failed first attempt	After remediation second Attempt	P-2 , F- /
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Successful with course: 38

Legend:

P=Pass First attempt: NR= need remediation: P2=Passes second attempt after remediation

Discussion:

Expectations have been met. No changes to course required

1. Students are able to perform Single Rescuer Cardiopulmonary Resuscitation on adults in accordance with the standards set by the American Heart Association.
2. Students are able to perform Two Rescuer Cardiopulmonary Resuscitation on adults in accordance with the standards set by the American Heart Association.
3. Students are able to perform both Single and Two-Rescuer Cardiopulmonary Resuscitation on infants in accordance with the standards set by the American Heart Association.

Test Summary

Course EMS 022

Date: 5/2010

Evaluator/Instructor of record: Karl Nicholson

Section: 2

Number of student's: 34

Practical Exam

1 Rescuer CPR		2 Rescuer CPR		1 and 2 Rescuer Infant CPR	
P, 34/34 - NR, P2, - F,	34/34	P, 34/34 - NR, P2, - F,	34/34	P, 34/34 - R, P2, - F,	34/34

Cognitive written exam

Must obtain an 84% or greater to pass

Initial attempt with Version "A"

Second attempt after remediation Version "B"

Passed	34/34	Failed first attempt	/	After remediation second Attempt	P-2 / , F- /
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Successful with course: 34/34

Legend:

P=Pass First attempt: NR= need remediation: P2=Passes second attempt after remediation

Discussion:

Expectations have been met. No changes to course required

1. Students are able to perform Single Rescuer Cardiopulmonary Resuscitation on adults in accordance with the standards set by the American Heart Association.
2. Students are able to perform Two Rescuer Cardiopulmonary Resuscitation on adults in accordance with the standards set by the American Heart Association.
3. Students are able to perform both Single and Two-Rescuer Cardiopulmonary Resuscitation on infants in accordance with the standards set by the American Heart Association.

Test Summary

Course EMS 022

Date: 5/2010

Evaluator/Instructor of record: Karl Nicholson

Section: 3

Number of student's: 32

Practical Exam

1 Rescuer CPR		2 Rescuer CPR		1 and 2 Rescuer Infant CPR	
P, 32 /32 - NR,	32 /32	P, 32/32 - NR,	32/32	P, 32/32 - R,	32/32
P2, - F,		P2, - F,		P2, - F,	

Cognitive written exam

Must obtain an 84% or greater to pass

Initial attempt with Version "A"

Second attempt after remediation Version "B"

Passed	29/32	Failed first attempt	3/32	After remediation second Attempt	P-2 3/3 , F- /
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Successful with course: 32/32

Legend:

P=Pass First attempt: NR= need remediation: P2=Passes second attempt after remediation

Discussion:

Expectations have been met. No changes to course required

1. Students are able to perform Single Rescuer Cardiopulmonary Resuscitation on adults in accordance with the standards set by the American Heart Association.
2. Students are able to perform Two Rescuer Cardiopulmonary Resuscitation on adults in accordance with the standards set by the American Heart Association.
3. Students are able to perform both Single and Two-Rescuer Cardiopulmonary Resuscitation on infants in accordance with the standards set by the American Heart Association.

Test Summary

Course EMS 022

Date: 5/2010

Evaluator/Instructor of record: Karl Nicholson

Section: 4

Number of student's: 34

Practical Exam

1 Rescuer CPR		2 Rescuer CPR		1 and 2 Rescuer Infant CPR	
P, 34/34 - NR, P2, - F,	34/34	P, 34/34 - NR, P2, - F,	34/34	P, 34/34 - R, P2, - F,	34/34

Cognitive written exam

Must obtain an 84% or greater to pass

Initial attempt with Version "A"

Second attempt after remediation Version "B"

Passed	34/34	Failed first attempt	/	After remediation second Attempt	P-2 / , F- /
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Successful with course: 34/34

Legend:

P=Pass First attempt: NR= need remediation: P2=Passes second attempt after remediation

Discussion:

Expectations have been met. No changes to course required

1. Students are able to perform Single Rescuer Cardiopulmonary Resuscitation on adults in accordance with the standards set by the American Heart Association.
2. Students are able to perform Two Rescuer Cardiopulmonary Resuscitation on adults in accordance with the standards set by the American Heart Association.
3. Students are able to perform both Single and Two-Rescuer Cardiopulmonary Resuscitation on infants in accordance with the standards set by the American Heart Association.

Test Summary

Course EMS 023

Hazardous Materials First Responder

Date: 5/2010

Evaluator/Instructor of record: John Commander

Section: 01

Number of student's: 36

Cognitive written exam

Must obtain an 70% or greater to pass

Pass 36

Fail 0

Discussion:

Expectations were met. No changes necessary

Students met the standards set by the Office of Emergency Services California Specialized Training Institute

Test Summary

Course EMS 023

Hazardous Materials First Responder

Date: 5/2010

Evaluator/Instructor of record: John Commander

Section: 02

Number of student's: 32

Cognitive written exam

Must obtain an 70% or greater to pass

Pass 27

Fail 5

Discussion:

Expectations were met. No changes necessary

Students met the standards set by the Office of Emergency Services California Specialized Training Institute

Test Summary

Course EMS 023

Hazardous Materials First Responder

Date: 5/2010

Evaluator/Instructor of record: John Commander

Section: 03

Number of student's: 36

Cognitive written exam

Must obtain an 70% or greater to pass

Pass 36

Fail 0

Discussion:

Expectations were met. No changes necessary

Students met the standards set by the Office of Emergency Services California Specialized Training Institute

Test Summary

Course EMS 023

Hazardous Materials First Responder

Date: 5/2010

Evaluator/Instructor of record: John Commander

Section: 04

Number of student's: 38

Cognitive written exam

Must obtain an 70% or greater to pass

Pass 38

Fail 0

Discussion:

Expectations were met. No changes necessary

Students met the standards set by the Office of Emergency Services California Specialized Training Institute

Test Summary

Course EMS 105

Date: 3/23/2010

Evaluator/Instructor of record: Harry Stone

Section: 1

Number of student's: 27

Note: Three (3) students never attended class

Practical Exam

50/50		45/50		40/50	
Mastered	20/24	Above Competent	3/24	Competent	1/24

Less than 40 points is below competency and unsuccessful. 0/15

Five scenarios worth 10 points each, Trauma, Medical, Behavioral, Respiratory, and ethical situations

Complete in a ten (10) minute time frame

Measuring the ability to recognize critical verses a non-critical patient by vital signs and mechanism of injury or illness stated in scenario in a ten minute timeline.

Successful with course: 24/24

Discussion:

Expectations have been met. No changes to course required

Students met the course goals;

- The ability to assess the, ill/injured, adult and pediatric patient
- Demonstrated an organized and systematic approach
- Demonstrate an organized Basic Life Support assessment
- Develop a format for proper pre-hospital documentation

05/26/2010

Test Summary

Course EMS 921

Date: 2/2010

Instructor of record: John Commander

Section: 1

Number of student's: 13

Practical Exam

Airway	O.B	Infant	Medical Assessment	Trauma Assessment	Behavioral
P __13	P __13	P __13	P __13	P __13	P __13
Failed first attempt	Failed first attempt	Failed first attempt	Failed first attempt	Failed first attempt	Failed first attempt
Retest	Retest	Retest	Retest	Retest	Retest
P____ NP____	P____ NP____	P____ NP____	P____ NP____	P____ NP____	P____ NP____

Must show competency in all skills

Must complete all skills without performing any of the Critical Criteria noted on the designated skill sheets

Passed 13	Failed first attempt /	After remediation second Attempt P / , F /
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Cognitive exam

Must obtain an 80% of better without a retest option

Passed 13	Failed
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Successful with course: 13

Discussion:

Expectations have been met. No changes to course required

1. Demonstrate airway management with the use of airway adjuncts
2. Demonstrate a systematic medical assessment
3. Demonstrate a systematic trauma assessment
4. Demonstrate an assessment on a behavioral patient
5. Demonstrate application of a traction splint

