Cerro Coso College

Course Outline of Record Report

10/08/2021

EMTCC205 : Emergency Medical Technician Refresher

General Information

Author:	-
Course Code (CB01) :	EMTCC205
Course Title (CB02) :	Emergency Medical Technician Refresher
Department:	Allied Health
Proposal Start:	Fall 2013
TOP Code (CB03) :	(1250.00) Emergency Medical Services
SAM Code (CB09) :	Clearly Occupational
Distance Education Approved:	Yes
Course Control Number (CB00) :	CCC000564303
Curriculum Committee Approval Date:	12/02/2016
Board of Trustees Approval Date:	03/09/2017
External Review Approval Date:	05/29/2015
Course Description:	This course provides a review of the current standards and techniques used by Emergency Medical Technicians in evaluating and providing emergency medical care through recognition of signs and symptoms of illnesses and injuries. This is required for renewal of core competencies, practical skill application and current standards and procedures of emergency care and transportation aspects required for Emergency Medical Technicians. 24 hours of continuation education units will be issued upon successful completion and meeting standards with an 80% or greater. Successful completion of this course qualifies the student to receive 24-hours of continuing education and a state practical skill form. This course may be used for candidates extending their eligibility to apply and take the national exam for the Emergency Medical Technician, to ultimately qualify for application within the State of California. To enroll in this course, students must have completed the EMTC C105 course within the previous 24 months; or be currently certified as an Emergency Medical Technician; or not have lapsed as a certified Emergency Medical Technician for greater then 24 months as per state requirements.
Submission Type:	New Course Non-Standard Hours Justification: Lecture (24-hours) and lab (8-hours) for a total of 32 hours. This course is 1.5 units.
Author:	No value

Faculty Minimum Qualifications

Master Discipline Preferred:	• Emergency Medical Technologies
Alternate Master Discipline Preferred:	No value
Bachelors or Associates Discipline Preferred:	• Emergency Medical Technologies
Additional Bachelors or Associates Discipline Preferred:	No value

Course Development Options

Basic Skills Status (CB08)

Course is not a basic skills course.

Course Special Class Status (CB13)

Course is not a special class.

Grade Options

- Letter Grade Methods
- Pass/No Pass

☐ Allow Students to Gain Credit by Exam/Challenge

Allowed Number of Retakes

0

Course Prior To College Level (CB21)

Not applicable.

Rationale For Credit By Exam/Challenge

No value

Retake Policy Description

Type:|Non-Repeatable Credit

☐ Allow Students To Audit Course

Course Support Course Status (CB26)

No value

Associated Programs

☐ Course is part of a program (CB24)

Associated Program	Award Type	Active
No value	No value	

Transferability & Gen. Ed. Options

Course General Education Status (CB25)

No value

Transferability

Transferable to CSU only

Transferability Status

Approved

Units and Hours

Summary

Minimum Credit Units (CB07)	1
Maximum Credit Units (CB06)	1
Total Course In-Class (Contact) Hours	25.02
Total Course Out-of-Class Hours	50.04
Total Student Learning Hours	75.06
Faculty Load	0

Credit / Non-Credit Options

Course Credit Status (CB04)

Credit - Degree Applicable

Course Non Credit Category (CB22)

Credit Course.

Non-Credit Characteristic

No Value

Course Classification Status (CB11)

Credit Course.

Funding Agency Category (CB23)

Not Applicable.

☐ Cooperative Work Experience Education Status (CB10)

☐ Variable Credit Course

Weekly Student Hours

	In Class	Out of Classs
Lecture Hours	1.39	2.78
Laboratory Hours	0	0
Activity Hours	0	0

Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	0
Course In-Class (Contact) Hours	
Lecture	0
Laboratory	0
Activity	0
Total	25.02
Course Out-of-Class Hours	
Lecture	0
Laboratory	0
Activity	0
Total	50.04

Time Commitment Notes for Students

No value

Faculty Load

Extra Duties: 0

Faculty Load: 0

Units and Hours - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

Units and Hours: Non Standard

Summary

Minimum Credit Units (CB07)	1.5
Maximum Credit Units (CB06)	1.5
Total Course In-Class (Contact) Hours	32
Total Course Out-of-Class Hours	0
Total Student Learning Hours	32
Faculty Load	0

Detail

Weekly Student Hours

	In Class	Out of Classs
Lecture Hours	1.33	0
Laboratory Hours	0	0
Activity Hours	0	0

Course Student Hours

Course Duration (Weeks)	18
Hours per unit divisor	24
Course In-Class (Contact) Hours	
Lecture	24
Laboratory	8
Activity	0
Total	32
Course Out-of-Class Hours	
Lecture	0
Laboratory	0
Activity	0
Total	0

Time Commitment Notes for Students

No Value

Faculty Load

Extra Duties: 0

Faculty Load: 0

Units and Hours: Non Standard - Weekly Specialty Hours

Activity Name	Type	In Class	Out of Class
No Value	No Value	No Value	No Value

Pre-requisites, Co-requisites, Anti-requisites and Advisories

Prerequisite

EMTCC105 - Emergency Medical Technician

Current Certification as an Emergency Medical Technician; or successful completion of the EMTC C105 Emergency Medical Technician course within the previous 24 months; or have an expired Emergency Medical Technician certification no greater then 24 months.
Required by Statute

EMTC C105
Required by Statute

Entrance Skills

Entrance Skills	Description
No value	No value

Limitations on Enrollment

Limitations on Enrollment	Description
No value	No value

Specifications

Methods of Instruction

Methods of Instruction	Audiovisual
Rationale	No value
Methods of Instruction	Case Study
Rationale	No value
Methods of Instruction	Demonstration
Rationale	No value

Methods of Instruction	Discussion
Rationale	No value
Methods of Instruction	Guest Lecturers
Rationale	No value
Methods of Instruction	Group Work
Rationale	No value
Methods of Instruction	Instruction through examination or quizzing
Rationale	No value
Methods of Instruction	Lecture
Rationale	No value
Methods of Instruction	Outside reading
Rationale	No value
Methods of Instruction	Problem Solving
Rationale	No value
Methods of Instruction	Skills Development and Performance
Rationale	No value
Methods of Instruction	Other
Rationale	Scenario based simulation.

Assignments

- **a. Required readings provide updated material related to the knowledge attainment required to perform and define relevant medical signs and symptoms of patient problems. b. Skill practice should include practicing medical and trauma patient scenarios using mannequins, live persons, and computer simulations. c. Writing assignments include completion of case scenario questions followed with reflective discussions.a. Required readings provide updated material related to the knowledge attainment required to perform and define relevant medical signs and symptoms of patient problems. b. Skill practice should include practicing medical and trauma patient scenarios using mannequins, live persons, and computer simulations. c. Writing assignments include completion of case scenario questions followed with reflective discussions.**

Methods of Evaluation	Rationale
Other	Practical skills are tested using scenario based simulation at the national standard level. For example, students will assess a simulated accident victim and provide the appropriate intervention, communication, and leadership skills.
Other	An exam is administered using multiple choice, matching, true/false, fill-in-the-blank, short answer and labeling questions. For example: The 25 year-old patient of a fall is presenting with skin vital signs that are pale, cool, and diaphoretic. All of the following would be causes of shock in this patient except: 1. internal bleeding; 2. fractured pelvis; 3. ruptured heart; 4. bilateral femur fractures.

Equipment

No Value

Textbooks

Author	Title	Publisher	Date	ISBN
	This is for no textbook option			

Other Instructional Materials

No Value

Materials Fee

No

Learning Outcomes and Objectives

Course Objectives

No value

CSLOs

Recognize minor to major medical and trauma patient conditions. Expected SLO Performance: 70.0

Demonstrate assessment, management, and treatment of medical and trauma patient conditions in a safety conscious manner to the training level of an Emergency Medical Technician. Expected SLO Performance: 70.0

Explain the basic anatomy and how the organ systems react in various patient conditions. Expected SLO Performance: 70.0

Outline

Course Outline

A. The EMS System
1. Duties of the EMT
2. Traits of the EMT
3. Standards of Care
4. Medical-Legal Aspects pertaining to the EMT
5. The Law Regarding Special Reports
6. Equipment

B. The Human Body
1. Overview of the Human Body
2. The Study of Anatomy and Physiology
3. Body Regions; Cavities and Systems
4. Relating Structures to the Body

C. Patient Assessment
1. Obtaining information
2. Sources of information
3. Mechanisms of Injury

D. The Field Assessment
1. Primary Survey
2. Secondary Survey
3. The Subjective Interview
4. The Objective Examination
a. Skills (obtaining vital signs)
(1) Blood Pressure
(2) Pulse
(3) Respirations
b. Evaluate
(1) Skin Signs
(2) Level of Consciousness
(3) Pupillary Response
(4) Neurological State

E. Basic Life Support I - The Airway and Pulmonary Resuscitation
1. Skills of Airway Maintenance
2. Anatomy and Physiology of the Respiratory Tract
3. Signs of Adequate and Inadequate Breathing
4. Techniques for Clearing Airway Obstruction
5. Rescue Breathing
6. Neck Breathers

F. Basic Life Support
1. Cardiopulmonary resuscitation (CPR) precedures meeting standards of the American Heart Association - Basic Life Support for the Healthcare Provider certificaiton.
2. The Anatomy-As It Pertains to CPR

G. Breathing Aids and Oxygen Therapy
1. Airways - Insertion and Removal
a. Oropharyngeal Airway
b. Nasopharyngeal Airway
c. Combi-Tube®:
2. Suction devices
a. Techniques
b. V-Vac
c. Electric
3. Ventilation - Assist Devices
a. Pocket mask
b. The Bag-Valve-Mask
c. Demand-valve
4. Oxygen Therapy

a. Importance of Supplemental Oxygen
b. Hazards of O2 Therapy
5. Equipment: How to Use; and Maintain It

H. Bleeding and Shock
1. Bleeding
a. Blood
b. Blood Vessels
c. External Bleeding
d. Internal Bleeding
(1) Bleeding Control - Skills and Techniques
(2) Hemostat dressings
2. Shock
a. Definition
b. Types of Shock
c. Signs and Symptoms of Shock
d. Preventing and Treating Shock

I. Injuries - Soft Tissues and Internal Organs
1. The Soft Tissues - Anatomy/Physiology
2. Types of Soft Tissue Injury:
a. Closed Wounds
b. Open Wounds
3. Soft Tissue Wound Care
4. Emergency Care for Open Wounds

J. Injuries - Musculoskeletal Injuries - The Extremities
1. The Musculoskeletal System
2. The Human Skeleton
3. The Muscles
4. Injuries to Bones and Joints
a. Fractures
b. Other Injuries
5. Emergency Care for Injuries to the Extremities
a. Straightening Angulated Fractures
b. Splinting - Rigid; Soft; Traction
c. Slings
d. Pulse Assessment with Splinting
e. Traction and Traction Splints

K. Injuries - The Skull and Spine
1. The Axial Skeleton
a. The Skull
b. The Spinal Column
2. The Nervous System
3. Injuries to the Skull and Brain
a. Types of Injuries
b. Signs and Symptoms of Brain Injury
4. Care for Head Injuries
a. Injuries to the Cranium
b. Facial Fractures
c. Care for Patients Wearing Helmets
5. Injuries to the Spine
a. Types
b. Mechanism of Injury
c. Signs and Symptoms of Spinal Injury
6. Care for Spinal Injuries
a. Cervical Collar
b. Long Board/KED

L. Injuries - Soft Tissue Injuries of Head and Neck
1. Injuries to the Scalp and Face
2. Injuries to the Eyes; Ears; Nose and Mouth
3. Care of Injuries to the Head and Face
4. Injuries to Soft Tissues of the Neck

M. Injuries - The Chest; Abdomen and Genitalia

1. Injuries to the Chest
a. Types of Chest Injuries
b. Signs and Symptoms of Chest Injury
c. Open Chest Wounds and Their Care
d. Closed Chest Injuries and Their Care
2. Injuries to the Abdomen
a. Types of Abdominal Injuries
b. Signs and Symptoms of Abdominal Injury
c. Care for Abdominal Injuries
3. Injuries to the Pelvis and Genitalia
a. Injuries to the Urinary System
b. Injuries to the Reproductive System
c. Emergency Care of These Injuries

N. Medical Emergencies
1. Medical Emergencies
a. Define Medical Emergencies
b. Detecting Medical Emergencies
c. Poisonings
(1) Animal Bites
(2) Insect Bites
2. Disorders of the Cardiovascular System
a. Blood Vessel Disease
b. Heart Disease
(1) Heart Attack
(2) Congestive Heart Failure
c. Stroke
d. Emergency Care for Patients with Cardiovascular Disorder
3. Respiratory System Disorders
a. Dyspnea and Respiratory Distress
b. COPD
c. Asthma
d. Hyperventilation
e. Spontaneous Pneumothorax
f. Emergency Care of Patients with Respiratory Disorders
4. Diabetes Mellitus
a. Diabetic Coma and Insulin Shock
b. Care for Diabetic Emergencies
5. Epilepsy and Other Convulsive Disorders
a. Emergency Care of Convulsive Disorders
6. Acute Abdominal Problems
a. Emergency Care of acute abdominal problems
7. Communicable Diseases
8. Alcohol and Substance Abuse

O. Pediatric Emergencies
1. Infants and Children - Special Patients
2. Primary and Secondary Survey
3. Injuries Common to Children
4. The Battered Child Syndrome
5. Sudden Infant Death Syndrome
6. Medical Problems Common to Children
7. Care for Children - They Are Not Little Adults

P. Childbirth
1. The Role of the Emergency Medical Technician
2. Anatomy of Pregnancy and Delivery
3. The Stages of Labor
4. The Normal Delivery
5. Complications of Delivery
6. Pre-Delivery Emergencies
7. Abnormal Deliveries

Q. Burns and Hazardous Materials
1. Emergency Medical Services Systems Responsibilities
2. Burns and Their Care
3. Injuries Due to Electricity

4. Hazardous Materials

R. Environmental Emergencies
1. Emergencies due to Excessive Heat
a. Emergency Care for Injuries Due to Heat
2. Emergencies Due to Excessive Cold
a. Localized Cooling
b. Generalized Cooling/Hypothermia
c. Emergency Care for Injuries Due to Cold
3. Water and Ice-related Accidents
a. Drowning and Near Drowning
b. Water-Related Injuries
c. Diving Accidents
d. Accidents Involving Ice
e. Emergency Care of Persons Due to Water and Ice-Related Accidents

S. Triage and Disaster Management
1. Multiple Patient Situations
a. Triage
b. Triage and Patient Assessment
c. Disasters
d. The Impact of the EMS Personnel

T. The Ambulance Module
1. Lifts and Carries
2. Ambulance Equipment; Care; and Resupplying
3. Preparing for an Ambulance Run
4. En route to the Scene
5. Transferring Patients to the Ambulance
6. Transport of the Patient to the Hospital
7. Terminating the Run
8. Communications and Reports
9. Cleaning and disinfecting

U. Gaining Access
1. Role in extrication
2. Components
3. Protection
4. Access types
5. Simple versus complex

V. Special Operations
1. Role in hazardous materials incident
2. Bystander safety
3. Protection
4. Access types
5. Simple versus complex

Lab Outline

U. Complete required practical skill components of 48 competencies tested in 10 categories using scenario based testing:

Patient examination, trauma patient

Patient examination, medical patient

Airway emergencies

Breathing emergencies

AED and CPR

Circulation emergencies

Neurological emergencies

Soft tissue injury

Musculoskeletal injury

Obstetrical emergencies

Delivery Methods and Distance Education

Delivery Method: Please list all that apply -Face to face -Online (purely online no face-to-face contact) -Online with some required face-to-face meetings (“Hybrid”) -Online course with on ground testing -iTV – Interactive video = Face to face course with significant required activities in a distance modality -Other

Face 2 Face
Hybrid
Interactive

Rigor Statement: Assignments and evaluations should be of the same rigor as those used in the on-ground course. If they are not the same as those noted in the COR on the Methods of Evaluation and out-of-class assignments pages, indicate what the differences are and why they are being used. For instance, if labs, field trips, or site visits are required in the face to face section of this course, how will these requirements be met with the same rigor in the Distance Education section?

The delivery of this course through iTV requires student participation with the instructor and students attending at distant sites. This method of delivery provides access to students at sites with limited access and drive times in excess of 1 to 2 hours from the main campus site. Students will attend the cognitive classroom segment via iTV and attend the practical application of skills and techniques practice and testing at the designated site for the final exam date of the course. Online delivery requires completion of scenario based continuum of care assignment, video assessment of patient conditions, and standardized testing to maintain the same rigor as the face to face course. Learning management system is used for hybrid delivery of didactic, scenario based critical thinking applications, and cognitive assessments in conjunction with face-to-face course components.

Effective Student-Instructor Contact: Good practice requires both asynchronous and synchronous contact for effective contact. List the methods expected of all instructors teaching the course. -Learning Management System -Discussion Forums -Moodle Message -Other Contact -Chat/Instant Messaging -E-mail -Face-to-face meeting(s) -Newsgroup/Discussion Board -Proctored Exam -Telephone -iTV -Interactive Video -Other (specify)

LMS forums
LMS message
chat
email
face2face
discussion
phone
itv

Software and Equipment: What additional software or hardware, if any, is required for this course purely because of its delivery mode? How is technical support to be provided?

No Value

Accessibility: Section 508 of the Rehabilitation Act requires access to the Federal government's electronic and information technology. The law covers all types of electronic and information technology in the Federal sector and is not limited to assistive technologies

used by people with disabilities. It applies to all Federal agencies when they develop, procure, maintain, or use such technology. Federal agencies must ensure that this technology is accessible to employees and the public to the extent it does not pose an "undue burden". I am using -iTV—Interactive Video only -Learning management system -Publisher course with learning management system interface.

itv
LMS
publisher

Class Size: Good practice is that section size should be no greater in distance ed modes than in regular face-to-face versions of the course. Will the recommended section size be lower than in on-ground sections? If so, explain why.

No change in the class size recommended.