

**ALLAN HANCOCK COLLEGE
COURSE OUTLINE**

DEPARTMENT: FIRE, SAFETY & EMS
PREFIX & NO.: ENVT 157
CATALOG TITLE: First Aid for HAZMAT Workers
SCHEDULE TITLE: First Aid for HAZMAT Wkrs
UNITS: 1.5
TOTAL LECTURE HOURS: 24
TOTAL NUMBER OF WEEKS: (if other than 16) 2
GRADING OPTION: Credit/No Credit Option

CATALOG DESCRIPTION

Prepares the student to recognize medical emergencies that could occur at work sites involving hazardous materials. Emphasizes basic first aid skills needed to medically support HAZMAT work activities and to treat injuries and illnesses until trained emergency response personnel arrive on scene.

SCHEDULE DESCRIPTION

Prepares students to recognize medical emergencies and provide basic first aid.

COURSE GOALS To encourage and enable students to:

1. understand first aid level emergency medical care techniques employed in a hazardous materials work environment.
2. understand the techniques of providing first aid level care to patients at a hazardous materials work site.
3. recognize the signs and symptoms of medical trauma emergencies.
4. recognize potential emergency medical events that events that could happen at a hazardous materials work site.
5. recognize the signs and symptoms of heat stress due to chemical suit use.
6. understand CSTI guidelines of evaluating for and responding to heat stress resulting from chemical suit use.

INSTRUCTIONAL OBJECTIVES At the end of the course, the student will demonstrate the ability to:

1. demonstrate effective layperson CPR
2. demonstrate proper scene size-up
3. demonstrate proper disease prevention
4. demonstrate the steps of performing an appropriate patient assessment
5. demonstrate the proper treatment for medical emergencies
6. demonstrate the proper treatment for trauma emergencies
7. demonstrate the proper procedures for medically supporting hazmat workers and/or responders
8. demonstrate the ability to ascertain pre-entry and post-entry vitals as set forth by CSTI guidelines

COURSE OUTLINE

HOURS

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| 1. Layperson CPR | 16 |
| A. Scene Survey | |
| B. Disease Precautions | |
| C. Physical Assessment | |
| D. Bleeding and Shock | |
| E. Anaphylaxis | |
| F. Wounds, dressing, burns, head, and spine injuries | |
| G. Chest, abdominal, and pelvis injuries | |
| H. Bone, joint, and muscle injuries | |
| I. Splinting | |
| J. Sudden Illness | |
| K. Poisoning, bites, and stings | |
| L. Cold-related emergencies | |
| M. Rescuing and removing patients | |
| 2. Rescue Techniques | 8 |
| A. Treating chemically exposed patients | |
| B. Understanding decontamination techniques | |
| C. Scenarios | |

APPROPRIATE READINGS (other than textbook)

1. Henry/Stapleton. EMT Prehospital Care. 1997 Second Edition
2. Taber's Cyclopedic Medical Dictionary. 1997 Eighteenth Edition

ASSIGNMENTS

1. Reading and study guides
2. Weekly quizzes

Sample Writing Assignment:

Discuss three signs and symptoms of diabetic emergencies and the techniques employed when dealing with patients in diabetic shock.

EVALUATION

1. Weekly quizzes.
2. One final exam consisting of multiple choice and short answers.

Sample Essay Question

Describe first aid for a patient who has collapsed while working while in a level-A chemical protective suit.

TEXTS AND SUPPLIES

Adopted Text: Essentials of CPR and First Aid. National Safety Council, Jones & Barlett.

Other Materials: Handouts