

COURSE SYLLABUS

| | |
|---------------------------|---|
| LAST REVIEW | Spring 2021 |
| COURSE TITLE | Hazardous Materials Awareness and Operations |
| COURSE NUMBER | HZMT 0120 |
| DIVISION | Health Professions |
| DEPARTMENT | Fire Science |
| CIP CODE | 15.0508 |
| CREDIT HOURS | 3 |
| CONTACT HOURS/WEEK | Class: 3 |
| PREREQUISITES | None |
| COURSE PLACEMENT | Students must meet the correct placement measure for this course. Information may be found at: https://www.kckcc.edu/admissions/information/mandatory-evaluation-placement.html |

COURSE DESCRIPTION

The purpose of this course is to develop an emergency response contingency plan to deal with hazardous material or chemical emergencies in compliance with regulations in order to protect human health and the environment as well as to minimize an organization's risks. Students will also implement the various portions of the plan as required.

PROGRAM ALIGNMENT

This course is part of a program aligned through the Kansas Board of Regents and Technical Education Authority. For more information, please visit:
https://kansasregents.org/workforce_development/program-alignment

PROGRAM LEARNING OUTCOMES

1. Demonstrate physical skills needed for employment as a firefighter.
2. Explain fire behavior.
3. Apply emergency management skills to provide basic emergency medicine in the field.
4. Evaluate strategy and tactics related to fire safety, survival techniques, and fire management.
5. Explain legal issues related to fire services administration.
6. Demonstrate employability skills necessary for completing the job search process.

TEXTBOOKS

<http://kckccbookstore.com/>

METHODS OF INSTRUCTION

A variety of instructional methods may be used depending on content area. These include but are not limited to: lecture, multimedia, cooperative/collaborative learning, labs and demonstrations, projects and presentations, speeches, debates, panels, conferencing, performances, and learning experiences outside the classroom. Methodology will be selected to best meet student needs.

COURSE OUTLINE

- I. Hazardous Materials Introduction
- II. Hazardous Materials Identification
- III. Awareness-Level Actions at Hazardous Materials Incidents
- IV. Chemical Properties and Hazardous Materials Behavior
- V. Incident Management
- VI. Strategic Goals and Tactical Objectives
- VII. Terrorist Attacks, Criminal Activities, and Disasters
- VIII. Personal Protective Equipment
- IX. Decontamination
- X. Product Control
- XI. Air Monitoring and Sampling
- XII. Victim Rescue and Recovery
- XIII. Evidence Preservation and Sampling
- XIV. Illicit Laboratories

COURSE LEARNING OUTCOMES

Upon successful completion of this course, the student will:

- A. Properly recognize hazardous materials incidents.
- B. Properly identify hazardous materials.
- C. Define Awareness-level actions at hazardous materials incidents.
- D. Discuss chemical properties and hazardous materials behavior.
- E. Describe proper management of a hazardous materials incident.
- F. Discuss decision making, strategic goals, and tactical objectives.
- G. Distinguish between terrorist attacks, criminal activities, and disasters.
- H. Determine the best practices for using PPE.
- I. Determine the best practices for decontamination.
- J. Determine the best practices for product control.
- K. Use air monitoring and sampling equipment.
- L. Demonstrate proper victim rescue and recovery techniques.
- M. Recognize proper evidence preservation and sampling procedures.
- N. Recognize illicit laboratories.

ASSESSMENT OF COURSE LEARNING OUTCOMES

Student progress is evaluated through both formative and summative assessment methods. Specific details may be found in the instructor's course information document.

COLLEGE POLICIES AND PROCEDURES

Student Handbook

<https://www.kckcc.edu/files/docs/student-resources/student-handbook-and-code-of-conduct.pdf>

College Catalog

<https://www.kckcc.edu/academics/catalog/index.html>

College Policies and Statements

<https://www.kckcc.edu/about/policies-statements/index.html>

Accessibility and Accommodations

<https://www.kckcc.edu/academics/resources/student-accessibility-support-services/index.html>.