BARTON COMMUNITY COLLEGE
COURSE SYLLABUS

I. GENERAL COURSE INFORMATION

Course Number: EMHS 1962
Course Title: Disaster Site Worker
Credit Hours: 3
Prerequisites: none
Division/Discipline: Technical and Military Outreach
Course Description: This course will train students in accordance with OSHA regulations pertaining to construction standards and Safety for Disaster Site Workers that are set forth in the Code of Federal Regulations (CFR) 29, part 1926. This course will also introduce students to the operational skills and procedures required to provide support services, (e.g. utility, demolition, debris removal, or heavy equipment operation) or site clean-up services in response to natural and man-made disasters. All workers at disaster sites need to be aware of the differences between disaster sites and regular construction or demolition worksites and to be able to determine appropriate protective measures for ensuring disaster site worker safety.

II. INSTRUCTOR INFORMATION

III. COLLEGE POLICIES

Students and faculty of Barton Community College constitute a special community engaged in the process of education. The College assumes that its students and faculty will demonstrate a code of personal honor that is based upon courtesy, integrity, common sense, and respect for others both within and outside the classroom.

Plagiarism on any academic endeavors at Barton Community College will not be tolerated. The student is responsible for learning the rules of, and avoiding instances of, intentional or unintentional plagiarism. Information about academic integrity is located in the Student Handbook.

The College reserves the right to suspend a student for conduct that is determined to be detrimental to the College educational endeavors as outlined in the College Catalog, Student Handbook, and College Policy & Procedure Manual. (Most up-to-date documents are available on the College webpage.)

Any student seeking an accommodation under the provisions of the Americans with Disability Act (ADA) is to notify Student Support Services via email at disabilityservices@bartonccc.edu.

IV. COURSE AS VIEWED IN THE TOTAL CURRICULUM

This course will provide standard requirements for disaster site workers. After learning this material, the students will be able to utilize the knowledge in present and future employment, thus providing employers with a safer workplace for their employees.

V. ASSESSMENT OF STUDENT LEARNING

Course Outcomes, Competencies, and Supplemental Competencies:

A. Identify and interpret OSHA construction regulations (29 CFR 1926).
   1. Explain the OSH Act/General Duty clause 5(a)(1).
   2. Identify general safety and health provisions.
   3. Define the requirements needed to be considered a 'Competent Person'.
   4. Prepare the forms associated with OSHA recordkeeping.
   5. Identify and interpret the requirements of Subpart K of 29 CFR 1926.400 Electrical.
   6. Identify and interpret the requirements of Subpart M of 29 CFR 1926.500 Fall Protection.
   7. Identify and interpret the requirements of Subpart E of 29 CFR 1926.95 Personal Protective and Lifesaving Equipment.
   8. Identify and interpret the requirements of Subpart I of 29 CFR 1926.300 Tools Hand and Power.
   9. Identify and interpret the requirements of Subpart P of 29 CFR 1926.650 Excavations.
   10. Identify and interpret the requirements of Subpart X of 29 CFR 1926.1050 Stairways and Ladders.

B. Describe the characteristics of a disaster site and the responsibilities of a disaster site worker.
   1. State the primary theme of this course and utilize the "Personal Theme Worksheet".
   2. Give examples of how disaster sites differ from normal construction or demolition sites.
   3. Explain the responsibility for making decisions that enhance the safety of everyone at a disaster site.

C. List and describe disaster site safety hazards.
   1. Describe the hazards associated with:
      a. Unstable structures
      b. Confined/enclosed spaces
      c. Below-grade spaces and voids
      d. Flammable/combustible materials
      e. Compressed gases
      f. Severed utilities
      g. Sources of electricity
      h. Motorized equipment

        i. Traffic
        j. Slips, Trips and Falls

D. Describe disaster site health hazards.
    1. Explain the importance of the different routes of entry for health hazards.
    2. Describe the difference between acute and chronic health hazards and their significance for disaster site workers.
    3. Identify the health hazards that may be present at a disaster site.
    4. Describe the hazards of:
        a. Atmospheric hazards from chemical releases and fires
        b. Hot work
        c. Dusts
        d. Blood borne pathogens
        e. Miscellaneous chemicals
        f. Noise
        g. Heat and cold stress
    5. Describe the methods and limitations of air monitoring.

E. Identify Chemical Biological Radiological Nuclear and Etiologic (CBRNE) agents and their symptoms of exposure.
    1. List the types of agents included in the acronym CBRNE.
    2. Explain the need for additional training for CBRNE events.
    3. List the symptoms of exposure to selected CBRNE agents.
    4. Explain the significance of secondary devices.

F. List the symptoms of traumatic incident stress that are initiated by traumatic events.
    1. Explain how disaster sites can be sources of traumatic incident stress for workers.
    2. Give examples of physical, cognitive, emotional, and behavioral symptoms of traumatic incident stress.
    3. Describe the key components of traumatic incident stress management.
    4. Identify stress management techniques for workers at disaster sites.

G. Outline and demonstrate the proper use of respiratory protection equipment.
    1. Explain the importance of wearing respiratory protection.
    2. Give examples of common disaster site respiratory hazards.
    3. List the limitations of air purifying respirators (APR).
    4. Explain how to clean and store an air purifying respirator.
    5. Demonstrate the proper use of respirators by correctly:
        a. Inspecting and selecting an appropriate air purifying respirator
        b. Donning the respirator
        c. Performing a user seal check
        d. Doffing the respirator

H. Demonstrate the proper use of other personal protective equipment.
    1. List the factors to consider in selecting protective clothing.
    2. Describe the components of protective clothing that will be used in Level C and Level D ensembles.
    3. Give examples of the different types of protective equipment available and what hazards each type protects for:

        a. Head protection
        b. Eye and Face protection
        c. Hand protection
        d. Foot protection
    4. Identify the relationship between contamination zones and the levels or types of PPE required within those zones.

I. Identify and explain the reasons and methods of decontamination on a disaster site.
    1. Identify the reasons for decontamination.
    2. Explain the importance of decontamination at a disaster site.
    3. List and describe different types of decontamination on a disaster site.
        a. Personnel
        b. Tools
        c. Heavy equipment
        d. Work areas
    4. Explain where decontamination occurs on a disaster site.

VI. INSTRUCTOR'S EXPECTATIONS OF STUDENTS IN CLASS

VII. TEXTBOOKS AND OTHER REQUIRED MATERIALS

VIII. REFERENCES

IX. METHODS OF INSTRUCTION AND EVALUATION

X. ATTENDANCE REQUIREMENTS

XI. COURSE OUTLINE