

**BARTON COMMUNITY COLLEGE
COURSE SYLLABUS**

I. GENERAL COURSE INFORMATION

Course Number: MLTR 1042
Course Title: Military Petroleum Operations
Credit Hours: 2
Prerequisites: None
Division/Discipline: Military Programs
Course Description: The course serves as an introduction to the United States Army and reports, accountability, performing quality assurance procedures and tests, and observing for various forms of contaminants. Included is compliance with federal guidelines for transporting petroleum fuel in tanker vehicles.

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 serves as an introduction to some basic mobile petroleum refueling equipment and tanker vehicles. The class provides the student the opportunity to gain

knowledge in recognizing, preparing, handling and communicating the hazards of the many petroleum products that are stored and transported day to day.

V. ASSESSMENT OF STUDENT LEARNING

Barton Community College is committed to the assessment of student learning and to quality education. Assessment activities provide a means to develop an understanding of how students learn, what they know, and what they can do with their knowledge. Results from these various activities guide Barton, as a learning college, in finding ways to improve student learning.

Course Outcomes, Competencies, and Supplemental Competencies:

- A. Identify the fire hazards of petroleum products.
 - 1. List the elements needed to produce a fire.
 - 2. List the different type of fire extinguisher used to put out a fire
 - 3. List the things and or conditions that cause a fire to start.
 - 4. Describe the purpose and components of electrical bonding and grounding.

- B. Identify the health hazards of petroleum product exposure.
 - 1. Describe the three (3) main health hazards and exposure.
 - 2. Identify the first aid measures for injuries to petroleum fuel exposure.
 - 3. Identify the basic safety practices for all petroleum operations.

- C. Develop an understanding of some basic accountability required for petroleum operations.
 - 1. Complete the various record keeping and accountability forms.
 - a. "Request for Issue or Turn-In" document (DA Form 2765-1).
 - b. "Daily Issue of Petroleum Products" document (DA Form 3643).
 - c. "Monthly Abstract of Petroleum Accounting Summary" document (DA Form 3644).
 - d. "Monthly Bulk Petroleum Accounting Summary" document (DA Form 4702-R)
 - e. "Innage Gage Sheet" document (DA Form 3853-1)

 - 2. Apply gaging and inventory techniques to measure petroleum fuel in a tanker vehicle.
 - a. List the procedural steps and precautions for gaging a tanker vehicle.
 - b. Identify the appropriate gaging devices used for petroleum tanker vehicle.

- D. Operate bulk and retail petroleum dispensing equipment.
 - 1. Perform various refueling operations utilizing the M978 Heavy Expanded Mobile Tactical Truck (HEMMT).
 - 2. Perform various retail refueling operation utilizing portable pumps and other distribution systems.

- E. Perform a Quality Surveillance operation.
 - 1. Demonstrate how to visually check for contaminants
 - 2. Describe the method and procedure for performing the API (American Petroleum Institute) Gravity test.
 - 3. Identify the reasons for collecting and sending fuel samples for laboratory analysis.

- F. Develop an understanding of hazardous materials compliance for petroleum products.
 - 1. Identify if a petroleum product is regulated as a hazardous material.
 - 2. Identify the requirements for marking petroleum containers (fuel samples) and tanker vehicles.
 - 3. Identify the labels and placards required for shipments of petroleum products.

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