

COURSE SYLLABUS FALL 2022 DE

FSC-104 HAZARDOUS MATERIALS FIRST RESPONDER

AWARENESS & OPERATIONS

Course Title and Section: FSC-104 Hazardous Materials First Responder – Operations

(3 credits). Section: 301. CRN: 30725

Course Description: FSC 104. Hazardous Materials First Responder Operations. Introduction to the major categories of hazardous materials. Includes detection, identification, scene management, basic training, equipment planning, strategy and tactics in the management of hazardous materials incidents. Preparation for AZ Center for Fire Service Excellence certification testing. One lecture. Three lab.

Instructor(s): Jarrett Tarver
VACTE Instructor, Adjunct Faculty Yavapai College
Cell Phone: 928-607-4804
E-mail: jtarver@vacte.com
I will attempt to return all calls and emails within 24 hours

Eric Ostler
VACTE Instructor, Adjunct Faculty Yavapai College
Cell Phone: 928-963-0224
eostler@vacte.com

Office Hours: Scheduled by request or appointment.

Class Locations: Verde Fire Training Center

1350 W. Mingus Ave

Cottonwood AZ, 86326

Room 101 (unless otherwise notified)

Class Times: **Monday thru Thursday**

October 3rd – November 10th 1:40 pm to 4:10 pm

Saturdays

1 Friday or Saturday as assigned

9:00 am – 1:00 pm

Required Materials: Provided Textbook(s): Essentials of FF (Seventh Edition)

Essentials of FF Course Workbook (Seventh Edition)

Access to Internet capable computer (weekly assignments to be turned in through YC Canvas)

Prerequisites: None

Course Content:

1. The hazardous material problem
2. Recognizing and identifying hazardous materials
3. Flammable hazardous materials
4. Reactive hazardous materials
5. Toxic hazardous materials
6. Basic equipment and safety practices
7. Size-up, tactics and strategy
8. Scene management
9. Pre-emergency planning

Learning Outcomes:

1. Identify various hazardous materials and their potential dangers, including identification of placarding, labeling and shipping manifests. (1, 2)
2. Respond to and control flammable, reactive and toxic hazardous materials incidents. (3-5)
3. Use procedures necessary for effective size-up, tactical planning and scene management. (7, 8)
4. Identify systems for assessing possible intervention. (7)
5. Identify the three-tier concept of hazardous materials planning. (8)
6. Interpret the hazard and response information for a chosen chemical from the current edition of the Emergency Response Guidebook (ERG) and a Material Safety Data Sheet (MSDS). (2, 5, 6)
7. Remove a victim from a contaminated area, wash the victim, remove contaminated gear, and coordinate transporting the victim to a facility of higher care. (5-8)
8. Complete SCBA donning procedures within one minute. (6)
9. Match the type of control options for each response objective: absorption, damming, diking, dilution, diversion, retention, vapor dispersion, remote valve shut-off. (2, 6, 8)
10. Apply “Class B” firefighting foam(s) or vapor suppressing agent(s) on a spill or fire involving hazardous materials. (8, 9)

Required Assessment:

1. Pre- and Post-test (Pre test not part of grade)
2. Homework Assignments
3. Successful class completion of all AZCFSE JPR's
4. Class Participation
5. Online "Canvas" participation
6. Online Chapter Test's
7. Workbook chapters
8. Class presentation
9. Online Canvas Discussions
10. Final exam

Assignments: Students are expected to attend and participate in all class meetings, labs, and field trips. A student who expects to be absent due to another school-sponsored activity or compelling personal reason must make prior arrangements with the instructor. Excused absences may be granted by the instructor on a case-by-case basis, additional make-up work may be assigned. Tardiness or on-duty callouts may be counted as an absence at the discretion of the instructor. A student who does not adhere to instructor and College attendance requirements as defined in the Yavapai College General Catalog will be dropped from the course. Students will be responsible for all materials, regardless of attendance. All homework assignments should be completed prior to the next class in order to facilitate group discussions. If students miss class due to an *excused* absence, the student should contact the instructor to find out what materials were covered in class and to make up any assignments. Make-up assignments may only be awarded partial credit. All assignments and make-up work will be due by the next class meeting, unless a specific due date is assigned by the instructor.

Grading:

The course grading will be determined by a sum average of the online tests (homework), class participation (Saturday practical's) and the final test.

Grading:

The course grading will be determined by a sum average of the online tests (homework), class participation (Saturday practical's) and the final test.

Workbook 859 D - 69%-60%

Tests 548 pts. F - 59%-00%

Thanksgiving Assignment 50 pts.

Final Exam 150 pts.

Total possible – 1607 pts.

A - 100%-90%

B - 89%-80%

C - 79%-70%

****Students must complete required Job Performance Requirements (JPR's) that will be graded on a Pass/Fail standard that must be accomplished along with the course material in order to be approved to test for certification from the AZ Center for Fire Service Excellence.****

State Testing:

There will be a written exam, as well as practical scenario's, in accordance with the requirements of the AZCFSE. There will be a testing fee that must be paid to the AZCFSE by Cashier's check or Money order. Final details on this will be discussed in class.

All Candidates need to go to azfiretraining.org from the home page select "State Fire Training" and then "Forms: Program and Student" scroll down to "**Preparing for Certification Testing**" read this PDF to better inform and prepare you for the AZCFSE certification testing process and requirements.

Instructor and Institution Policies

Attendance Policy: Students are expected to attend and participate in all class meetings, practical's and field trips. A student who anticipates an absence due to another school-sponsored activity or compelling personal reason must make prior arrangements with the instructor if possible.

In accordance with VACTE student handbook policy, the following attendance requirements must be met or the student will be dismissed from the course:

1. Excused absences may be granted by the instructor, additional make-up assignments may be assigned, more than 7 total days of absence per semester for any reason, may result in being dropped from the class.
2. 6 absences or more will result in being placed on probation with VACTE.
3. Classes will start on time unless an unforeseen situation occurs (extreme weather conditions or major emergency incident). A tardy may be excused at Instructors discretion based on contact prior to the start of class.
4. The entire Engine company will be required to perform 4 pushups or situps for each minute a company member is late to class unexcused.

Course Withdrawal: To officially withdraw from a course, the student must complete a Yavapai College "Change of Class Enrollment Form" and submit it to the Registration Office. Withdrawing from a course after the published deadline for withdrawal requires instructor approval and signature. When a student withdraws from a course, a "W" will appear on the student's college record. If a student does not follow official procedures for withdrawing from a course, a failing grade may be posted on the student's college record.

Course Mentoring: Contact the course instructor during office hours, through e-mail, by phone, or at the beginning/ending of a class session to arrange for individual course assistance. Many student support services are also available to assist students in successful course completion.

Academic Integrity: Honesty in academic work is a central element in the learning environment. The presentation of another individual's work as one's own or the act of seeking unfair academic advantage through cheating, plagiarism or other dishonest means are violations of the College's "Student Code of Conduct." The definitions of plagiarism, cheating, violation of copyright, and associated penalties for violations are available in the Yavapai College General Catalog.

Student Code of Conduct: Respect for the rights of others and for the College and its property are fundamental expectations for every student. The "Student Code of Conduct" outlines behavioral expectations, and explains the process for responding to allegations of student misconduct.

Additional Policies: All radios, tone-alert pagers, cell phones and digital pagers will be turned off or placed in vibrate mode (with the exception of on-duty, first-out crews with Instructors approval).

Student Support Services and Resources

Disability Support Services: Yavapai College is committed to providing educational support services to students with documented disabilities. Academic support services or accommodations for mobility-impaired students must be arranged through Student Support Services (Prescott Campus: 776-2369, Verde Campus: 634-6563).

Library: Library services are available at the Prescott and Verde campus libraries. Both libraries are members of a countywide library network, which provides access to a wide range of information and resources at libraries throughout Yavapai County. Possession of a College library card entitles students to access materials housed at member libraries. Instructors may place required course materials on reserve in the library or make assignments that require the use of library resources.

Bookstore: Required textbooks, reference materials, and instructional supplies may be purchased at the Yavapai College bookstore. Textbooks can also be purchased online at: <http://www.efollett.com>. Information about the bookstore refund policy and buyback policy is available in the Yavapai College General Catalog. Textbooks will be made available to you for this class, you will be given your own copy of the corresponding workbook.

Learning Resource Centers: Learning Resource Centers are located at the Prescott and Verde campuses. These centers provide a variety of learning support for students including tutoring, adaptive computer and equipment for students with disabilities, computer-assisted instruction, adult basic education, and English as a Second Language classes.

Covid 19: Precautions may include but are not limited to daily temperature checks, daily well being surveys, daily disinfecting of classroom and of all tools, social distancing, mask use, and any other recommended or required safeguards to help limit the spread of disease or infection. If a student registers a temperature of 100 degrees or higher a temperature recheck will occur. If the result is still at or above 100 degrees or based on survey questions the instructor feels it would be in the best interest of the other students, that student will be asked to leave the classroom. In person classes may be discontinued and learning moved to an online format without notice.

“All students need to be aware of and comply with the safety and operational protocols for COVID-19 while on Yavapai College’s campuses or centers. Safety protocols can be found at this link:

<https://www.yc.edu/v6/college-police/covid-19/reentry/>.