

ALABAMA FIRE COLLEGE

AND PERSONNEL STANDARDS & EDUCATION COMMISSION



COURSE SYLLABUS

Hazardous Materials/WMD: Technician

FSC 171

50 clock hours (minimum)

PREREQUISITES

- 18 years of age
- (Pro Board or IFSAC) Certified Hazardous Materials - Awareness and Operations, or Alabama Certified Fire Fighter I or Volunteer Fire Fighter

REQUIRED COURSE MATERIALS

- **Hazardous Materials Managing the Incident, Jones & Bartlett, Revised 5th Edition**
- **The current edition of the Emergency Response Guide (Hard Copy) or USDOT Digital Copy**
- **NIOSH Pocket Guide (Hard Copy) or Accessible Electronic Version**
- **Student Supplemental Manual (Hard Copy)** – The Student Supplemental Manual can be purchased through the AFC bookstore or an Electronic Version can be accessed via AFC online
- SCBA is required for this course, however, if you are traveling via airplane to attend this course one will be provided as needed
- Recommended: Personal Protective Equipment (work gloves, work boots, sunglasses, etc.)
- Turnout gear is NOT required

DESCRIPTION

This course is based on NFPA 470: *Hazardous Materials/Weapons of Mass Destruction (WMD) Standard for Responders*. Designed for the student already certified/trained at the Hazardous Materials Awareness and Operations level; this course develops the skills already learned and provides in-depth training in the mitigation of hazardous materials incidents. Through both classroom and practical training, the student becomes familiar with health and safety issues, incident management, hazard and risk analysis, personal protective clothing, offensive response objectives (containment techniques), and decontamination.

STUDENT LEARNING OBJECTIVES

- Analyze a hazardous materials incident to determine the magnitude of the problem in terms of outcomes.
- Plan a response within the capabilities of available personnel, personal protective equipment, and control equipment.
- Implement the planned response to favorably change the outcomes consistent with the organization's standard operating procedures and safety considerations.
- Evaluate the progress of the planned response by evaluating the effectiveness of the control functions.
- Terminate the incident.

CERTIFICATION REQUIREMENTS

To be issued certification, the candidate will: provide documentation of prerequisites, complete required training hours including skills training, successfully complete the cognitive written exam, and successfully complete the practical exam.

ACCREDITATION

Alabama Fire College and Personnel Standards Commission maintains accreditation with Pro Board and IFSAC. Each student will automatically receive national registration and certification upon successful completion of all requirements for certification.

COURSE SCHEDULE (SUBJECT TO CHANGE)

5-DAY SCHEDULE

Day One:	Chapters 1, 2, 3, 7, 8, & 11
Day Two:	Chapters 5, 6, & 9 with classroom exercises
Day Three:	Chapters 10, 12, & 13 with field activities
Day Four:	Chapter 14 with classroom activity, field dress-out activities, & final scenario
Day Five:	Field scenario, skills testing, and written testing

6-DAY SCHEDULE

Day One:	Chapters 1, 2, 3, 5, 7, 8, & 11
Day Two:	Chapters 5, 6, & 9 with classroom exercises
Day Three:	Chapters 10 & 12 with field activities
Day Four:	Chapter 13 with field activities and dress-out activities
Day Five:	Chapter 14 with classroom activity and field scenarios
Day Six:	Skills testing and written testing

GRADE ASSESSMENT

WRITTEN EXAMINATION

Perform to a minimum 70% competency on the examination,
(One retest is allowed after 30 days but within one year of course end date.)

PRACTICAL EXAMINATION

Successfully complete a skills/project evaluation to a minimum of 70% competency and successful completion of all critical points. Evaluators will test at least 25% of the skills for each. Skill sheets to be tested will be randomly selected by AFC Certification Unit for the practical examination. (One retest is allowed after 30 days but within one year of course end date.)