

# 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 4<sup>th</sup> Edition
- 2020 Emergency Response Guide
- NIOSH Pocket Guide
- Recommended: Student Supplemental Manual and Personal Protective Equipment (PPE)

### DESCRIPTION

This course is based on NFPA 1072: Standard for Hazardous Materials/Weapons of Mass Destruction Emergency Response Personnel Professional Qualifications. 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.

Due to the recent threat of emerging infectious diseases, additional information is presented for infection control measures and other worker protection protocols. A practical hands-on training will be conducted using PPE to improve the skills and confidence of first responders responding to infectious disease threats ranging from Ebola to COVID-19.

Topics will include:

- A review of infectious materials and means of transmission
- Isolation precautions and infection prevention
- Review of common PPE available to EMS and rescue personnel
- Discussion and demonstration of patient transportation practices
- Donning and doffing practice session and performance evaluation

### 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, 5, 6, and first part of 7
Day Two:	Chapter 7 continued with classroom exercises, Chapter 8 and PPE demonstration
Day Three:	Chapter 10 with field activities and Chapter 11 with field activities
Day Four:	Chapter 12 with classroom activity and field dress out activities
Day Five:	Field scenario, skills testing, and written testing

### 6 DAY SCHEDULE

Day One:	Chapters 1, 2, 3, 5, 6
Day Two:	Chapter 7 with classroom exercises
Day Three:	Chapter 8 with classroom demonstration and Chapter 10 with field activities
Day Four:	Chapter 11 with field activities and dress out activities
Day Five:	Chapter 12 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.)