

Program of Instruction

Course Syllabus

Course Title: Hazardous Materials Technician

Course Duration: 80 Hours

Program: Technical Programs

Course Prerequisites:

Certification for NFPA 472 Hazardous Materials/Weapons of Mass Destruction 1st Responder, Operations Level

Course Description

This is a 10-day, 80-hour course. The course is designed to prepare students to successfully complete certification as a Hazardous Materials Technician, as described in NFPA® 472, 2013 edition, *Standard on Professional Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents*.

The target audience includes, but is not limited to:

- Fire Service
- First Responders
- Law Enforcement Personnel
- EMS Personnel
- Emergency Management Personnel
- Industrial First Responders

Course Requirements and/or Recommendations: These can be divided into three categories: those completed prior to arriving in class (Pre-Course Work), those completed during class, such as homework assignments and quizzes (Course Work), and requirements completed after class but prior to receiving a certificate of completion. (Post-Course Work)

Summary of Directions

Pre-Course Work: Reading Chapters 1-3 of the course text, and
Completing chapter quizzes for Chapters 1-3

Course Work: Successful completion of all skill stations

Maintain a 70 percent or higher average for all chapter quizzes, and
70 percent or higher on the written certification exam

Post-Course Work: None

Textbook:

IFSTA "Hazardous Materials Technician," 2nd Edition

Course Policies:

Attendance Policy: Students are expected to attend all class sessions, be on time and to remain in class for the duration of the course. Students **MUST COMPLETE** all portions of a certification course, both classroom and practical, to be eligible to receive their certification. If a student must be absent due to unforeseen circumstances, the student must notify the lead instructor and arrange to complete any assignments that were missed during their absence. If a student misses any portion of class with an accumulated absence of 20% or less of scheduled class time, it will be the student's responsibility to arrange the make-up of the missed course content with the instructor(s) or program manager. The student must make up the specific course content missed, not just the hours. Students must attend 80% or more of the class to be eligible for certification.

Safety Policy: Students shall understand and follow all instructions pertaining to operational safety, as stated by instructors or as written in course materials. Instructors and students shall be mindful of safety at all times. Conduct judged to be unsafe shall be grounds for dismissal from the course.

Academic Integrity Policy: OSU-FST has the responsibility for maintaining academic integrity so as to protect the quality of the education provided through its courses, and to protect those who depend upon our integrity. It is the responsibility of the student to refrain from infractions of academic integrity, from conduct that may lead to suspicion of such infractions, and from conduct that aids others in such infractions. Any violation of the code of conduct is grounds for immediate dismissal from the course.

Reference List:

NFPA® 472, *Standard for Competence of Responders to Hazardous Materials/Weapons of Mass Destruction Incidents*, 2013 Edition

OSHA Title 29 CFR 1910.120 (HAZWOPER)

Course Content:

| Chapter | Chapter Title | Text Reference | Learning Activities or Skill Sheets |
|---------|--|----------------|---------------------------------------|
| 1 | Review of Awareness, Operations, and Technician-Level Competencies | 6-70 | |
| 2 | Scene Management | 72-109 | Learning Activities 2-1 to 2-3 |
| 3 | Chemical and Physical Properties | 114-140 | |
| 4 | Chemistry and Hazards of Hazardous Materials and Weapons of Mass Destruction | 142-198 | |
| 5 | Exposure Assessment and Toxicology | 200-220 | |
| 6 | Hazard and Response Information | 222-251 | |
| 7 | Hazard Detection and Monitoring | 254-308 | Skill Sheets 7-1 to 7-11 |
| 8 | Personal Protective Equipment | 322-382 | Skill Sheets 8-1 to 8-4 |
| 9 | Decontamination | 390-421 | Skill Sheets 9-1 to 9-3 |
| 10 | Container Identification, Design, and Construction | 430-497 | |
| 11 | Product Control | 498-544 | Skill Sheets 11-1 to 11-23 |
| 12 | Incident Demobilization and Termination | 582-593 | |