

	<b>OFFICE OF STATE FIRE MARSHAL</b> <b>REGIONAL HAZARDOUS MATERIAL</b> <b>EMERGENCY RESPONSE TEAMS</b> <b>STANDARD OPERATING GUIDELINES</b>	<b>Number: T-025</b> <b>Adoption Date:</b> December 3, 2015 <b>Review/Revision Date:</b> July 26, 2017
OSFM Approved: <u><i>Michael Heffner</i></u> Date <u>1/17/18</u> Michael Heffner, Emergency Response Unit Manager		Submitted by: <u><i>Jamie Kometz</i></u> Date <u>1/17/18</u> Jamie Kometz, RHMERT Program Coordinator
<p><b>SUBJECT:</b> Training/Certification to the Level of Hazmat Technician</p> <p><b>OBJECTIVE:</b> The Office of State Fire Marshal (OSFM) Hazardous Material Technician certification program is designed to ensure consistency of instruction based on Technician Level Training referenced in NFPA 472 Standards for Competence of Responders to Hazardous Material / Weapons of Mass Destruction Incidents, Current Edition. Successful completion within this framework will instill accountability, credibility, and certification for individuals who are seeking association with approved OSFM Hazmat Teams.</p>		

**I. Scope**

The Office of State Fire Marshal (OSFM) Hazardous Material Technician certification program will identify the following:

- A. Outline Course Requirements – Approved Teaching Curriculum and Resources, Scope of Lesson Content, Approved Teaching Progression, Part 1 and Part 2 Course Breakdown, Course Completion Standards, Written Test, and Physical Skills Requirements
- B. Initial Technician Requirements – Prerequisites, Academy Performance, Written Final Examination Performance
- C. Previous or Out of State Hazmat Technician Certification Requirements: Minimum Qualifications, OSFM Testing Requirements, Challenge Procedures
- D. OSFM Instructor Requirements
- E. Financial Reimbursement regarding Technician Level Training by OSFM

**II. Course Requirements for Hazardous Materials Operations / Technician**

- A. OSFM approved Hazardous Materials Technician Course will be based on NFPA 472 Standards for Professional Competence of Responders to Hazardous Materials / Weapons of Mass Destruction Incidents (Current Edition) Referencing Chapter 7 Competencies for Hazardous Materials Technician.

- B. The OSFM Hazardous Material Technician Course shall be divided into two teaching segments. "Part 1" and "Part 2". Initial Candidates will receive Technician Certification after both segments have been completed, which accounts for 160 hours of instruction, optimally within a 12 month period.
- C. Approved Teaching Curriculum and References
1. IFSTA – Hazardous Materials Technician (Current Edition)
  2. DOT – Emergency Response Guidebook (Current Edition)
  3. NIOSH – Pocket Guide to Chemical Hazards (Current Edition)
  4. NFPA 472 – Standards of Competence of Responders to Hazardous Materials (Current Edition)
  5. NFPA 1500 – Standards of Fire Department Occupational Safety and Health Program
- D. Scope of Lesson Content
1. Part 1:  
Provide 80 hours of class instruction backed up by Pre-Academy and weekly "out of class" reading assignments based on selected topics from the IFSTA Hazmat Technician Manual. Part 1 Course will give student's knowledge pertaining to basic hazardous material properties, chemistry, atmospheric monitoring, modes of transportation, mitigation methods, level of personal protection, decontamination, incident tactics and strategies. This course is designed to teach base knowledge and skills. Successful completion is gained through passing a final written examination by 80% and showing proficiency in selected manipulative skills.
  2. Part 2:  
Provide 80 hours of class instruction progressing through a complexity of Hazardous Materials Scenarios. Students will apply knowledge gained from Part 1 Course showing proficiency using a risk-based response process by analyzing problems involving hazardous materials/WMD, selecting applicable decontamination procedures, and control a release using specialized protective clothing and control equipment to Hazmat Technician Standards.
- E. An approved OSFM Hazardous Material Technician Part 1 Course will follow a minimum progression in teaching base knowledge:
1. Chemistry / Exposure Assessment
  2. Monitors
  3. PPE / DECON
  4. Hazard Recognition and Recon

5. Containers ID
6. Product Control
7. WMD / RAD
8. Resource Scene Management
9. Incident Demobilization and Termination Events

During an approved OSFM course, students will spend a minimum of 4 hours at a private industry Hazardous Materials Facility in order to gain knowledge of industry standards and current container ID.

- F. Part 1 will have at a minimum 8 hours of classroom instruction dedicated to the Hazmat Monitor Disciplines.
- G. Written Examination and Practical Skills Proficiency
  1. OSFM TTAC Committee will approve a final written examination based on NFPA 472 Chapters 6 and 7 Competencies. This test will be the only written test offered for validation of successful completion for Part 1 Course.
  2. Students must pass a written examination by 80% for successful completion of Part 1 Course. Exams can be administered and graded by approved OSFM instructors.
  3. Students must also show proficiency in physical motor skills outlined in NFPA 472 as follows:
    - 7.1.2 Surveying Hazardous Materials
    - 7.4.2 Using Protective Clothing and Respiratory Protection
    - 7.4.3 Performing Control Functions Identified in IAP'S
    - 7.4.5 Performing Decontamination Operations Identified in IAP's
- H. Course Evaluation Form
  1. The approved instructor will have each student fill out a course evaluation form at the conclusion of both Part 1 and Part 2 Courses. Evaluation forms will be submitted to OSFM Training Committee for review within 30 days of class ending.

### **III. New Technician Prerequisites and Requirements**

- A. Prior to Starting Part 1 Course, candidates will have completed certifications as follows:
  1. NFPA Fire Fighter 1 Task Book or Equivalent

2. NFPA 472 Operational Level Responder Task Sheet
3. Mask Fit: Proof of fit testing for the SCBA mask  
OSHA 29CFR1910.134 Respiratory Protection Standard  
NFPA 1500-2007 Fire Department Occupational Safety and Health Program

B. Successful Completion of Part 1

Completion of Weekly Reading Quizzes  
80% passing Grade on Final Written Examination  
Proficiency in physical motor skills selected by approved OSFM Instructors

C. Successful Completion of Part 2

Proficiency by using a risk-based response process by analyzing problems involving hazardous materials/WMD, selecting applicable decontamination procedures, and control a release using specialized protective clothing and control equipment to Hazmat Technician Standards.

D. OSFM Hazmat Technicians Verification

In order for candidates to be considered OSFM Hazmat Technicians, candidates must be affiliated with one of the OSFM Hazmat Response Teams. OSFM State Team Administrators shall identify to OSFM the candidates they are accepting on their Response Teams.

**IV. Previous or Out of State Hazmat Technician Certification Prerequisite Requirements**

A. Prior to receiving authorization to challenge the Hazardous Materials Technician Part 1 Course, applicants shall have met the following requirements:

1. Be a certified Hazardous Materials Technician (NFPA 472) from another state in good standing and an active participant on a Hazardous Materials Response Team within two years of application to OSFM.
2. Or a previous OSFM Certified Hazmat Technician in good standing within the last two years.
3. NFPA Task Book / Sheet Completion

- NFPA [Fire Fighter I Task Book](#) or Equivalent
- [NFPA 472 Operational Level Responder Task Sheet](#)

4. Mask Fit: Proof of fit testing to the SCBA mask

- OSHA 29CFR1910.134 Respiratory Protection Standard
- NFPA 1500-2007 Fire Department Occupational Safety and Health Program

5. Demonstrate proficiency in accordance to NFPA 472 topics pertaining to Team Positions, Personal Protective Equipment, and Monitoring Equipment sections of the State of Oregon Regional Hazardous Materials Response Teams Task Book.

6. Receive approval from current OSFM Team Administrator

7. Candidates will be given one of the approved OSFM final written examinations generated from the IFSTA Hazmat Technician Textbook and proctored by their Team's administrator. Candidates will have one chance to achieve a passing score equal to or greater than 80% evaluated by the Team Administrator.

8. Regardless of previous experience, all candidates must pass a written Part 1 Technician Examination by 80% in order to be recognized as a current OSFM Technician.

B. OSFM approved Hazardous Materials Part 2 Course

1. Prior to receiving authorization to attend the Hazardous Materials Technician Part 2 Course, applicants shall have met the following requirements:

- Successfully completed an approved OSFM's Hazardous Materials Technician Part 1 academy or passing the Challenge Test by 80% and showing proficiency in physical skills to their OSFM State Team Administrator.

**V. Prerequisites for Instructors for OSFM's Hazardous Materials Technician Courses**

A. Prior to receiving authorization to lead instruct an OSFM's Hazardous Materials Technician Course, applicants shall have met the following requirements:

1. Be certified by DPSST as an NFPA Fire Instructor 1

2. Content Expert; be able to demonstrate via resume and certification (DOD, IFSAC, Pro Board, or NFA) knowledge, skills, and ability in respective area.
  3. Be a past or current certified OSFM Hazardous Materials Technician in good standing with OSFM and their respective agency.
  4. Agree to adhere to OSFM approved Course Requirements lined out in section 3.
  5. Provide a list of all instructors and their certification.
  6. Attend an OSFM train the trainer course.
  7. Provide a Course Outline with instructors and subjects named.
- B. Assistant Instructors shall have met one or both of the following:
1. Content Experts need current certification in the subject matter that they are teaching.
  2. Current or Former OSFM Hazmat Technicians must be in good standing with their associated departments and OSFM.

## **VI. Prerequisites for State Team Certification Financial Reimbursement**

### **A. Instructors**

The Office of State Fire Marshal (OSFM) will only approve payment for instructors of the approved OSFM HazMat Technician course to those who have been granted approval by the OSFM.