

**FARGO FIRE DEPARTMENT
CERTIFICATION SYSTEM**



**FARGO
HAZARDOUS MATERIAL
AWARENESS & OPERATIONS
STANDARD**

**NFPA 472
2008 Edition**

Fargo Fire Department

Fargo Firefighters Certification Committee

The Fargo Fire Certification committee representatives are:

Management	Asst. Chief Steve Balstad, Asst. Chief Rob Wilson
Union Local 642	Firefighter Ron Guggisberg
Fargo Firefighter	Firefighter Todd LaValle
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Fargo Fire Department Certification Standards

Technical Committee

The Fargo Fire Department would like to extend our gratitude to all the fire service professionals who worked on the firefighter certification standards. These individuals devoted many hours reviewing the National Fire Protection Association Standards, certification test banks and developing skills for these standards. To everyone involved you can take great satisfaction of knowing you have contributed to the professional development and safety of the fire service in their service to the citizens of both Fargo and the State of North Dakota.

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HAZARDOUS MATERIALS AWARENESS

INTRODUCTION

As the world changes, operations at fire departments also continue to become more technical and complex. The Fargo Fire Department recognizes that along with these changes comes the challenge to continue effective, efficient service for its citizens. To meet these challenges, the Fargo Fire Department is implementing a standardized approach through training and certification to national standards. Through this training and national certification, the Fargo Fire Department believes it will best serve the citizens of Fargo and the citizens of North Dakota in providing for their safety and fire protection needs. The Department also feels that the standardized approach to training and national certification will ensure that any agency requesting assistance from the Fargo Fire Department will receive well trained, competent responders to assist in providing an immediate, positive impact for the requesting agency.

The following certification requirements are based on the objectives listed in the National Fire Protection Association (NFPA) 472, *Standard for Professional Competence of Responders to Hazardous Materials Incidents*, as verified and adopted by the Fargo Fire Department.

The following Hazardous Materials standard covers two levels of certification:

Hazardous Materials First Responder Awareness Level- NFPA 472, Chapter 4 The focus and purpose of the Awareness Level First Responder is to give the front line firefighter the ability to:

- Detect and identify the presence of a hazardous material.
- Collect information from the DOT Emergency Response Guidebook.
- Take protective actions by isolating the area and denying entry.
- Make proper notifications to local/state/national organizations.

With successful completion of this standard, which is based on the NFPA 472, Chapter 4 a candidate will have satisfied all requirements for the Hazardous Materials Awareness.

HAZ MAT AWARENESS CERTIFICATION REQUIREMENTS

Entrance Requirements

In order to certify within the Fargo Hazardous Materials Awareness program, firefighters must fulfill the following requirements:

1. Complete fire department or Authority Having Jurisdiction (AHJ) entrance requirements.
2. Maintain records of training.
3. Train on the required written objective.
4. Meet any other training requirements/prerequisites as defined by the Fargo Fire Department Certification Committee.
5. Pass written examinations administered by the Fargo Fire Department Certified Testers.

The Fargo Fire Department acknowledges the importance of and need for entrance requirements as listed in the NFPA 1001, *Standard on Fire Fighter Professional Qualifications*.

Physical Fitness Requirements

The requirements listed in NFPA 1001, Chapter 4 are:

1. Meet the minimum educational requirements established of the Fargo Fire Department or the AHJ.
2. Meet the medical requirements of NFPA 1582, *Comprehensive Occupational Medical Program for Fire Departments*.
3. Physical fitness requirements for entry-level personnel shall be developed and validated by the Fargo Fire Department or AHJ. Physical fitness requirements shall be in compliance with applicable Equal Employment Opportunity regulations and other legal requirements.

DEPARTMENT TRAINING

Training that meets the requirements as outlined in NFPA 472, Chapter 4 for Hazardous Materials Awareness is conducted at the department level or from outside sources.

Written Objectives

A written objective for First Responder - Awareness level is covered in the following text:

1. Jones and Bartlett Fundamentals of Firefighter Skills 2nd Edition.
2. 2004 DOT Emergency Response Guidebook
3. Fargo Fire Department SOG's

There are no manipulative skill examination requirements for the First Responder Awareness Level. The manipulative skill for this level is demonstrated during the written examination by using the 2004 DOT Emergency Response Guidebook.

Department Training Officers

Department training officers shall be Department certified at the **level** they are teaching.

Department training officers will be responsible for certification training. Their primary responsibility will be to teach and evaluate department personnel on the manipulative skill and evolution requirements for each level of certification training. Cognitive skills are a combination of classroom and self study by the student.

HAZARDOUS MATERIALS AWARENESS CERTIFICATION EXAMINATIONS

After completion of the training process, the candidate may test for certification.

Written Examinations

The written examination is a randomly generated **30-question** test covering the written objectives of the First Responders – Awareness Level. This examination is based on the candidate's ability to use the DOT Emergency Response Guidebook; therefore this book is used during the test. A minimum score of 70% is required to pass the certification exam. Firefighters failing the first attempt of the written exam will be permitted to retest the next time the test is administered.

SAMPLE WRITTEN EXAMINATION QUESTIONS:

What is the ID Number for Ammonium benzoate?

- a. 9081
- b. 9080**
- c. 2693
- d. 2818

The U.S. Department of Transportations (DOT) applies its definition of “any substance that poses an unreasonable risk to public safety and health” in commerce to:

- a. hazardous materials.**
- b. consumer commodities
- c. chemical substitutes
- d. elementary particles.

There is no separate Manipulative examination for the First Responder – Awareness level. This is accomplished during the written examination in using the Emergency Response Guidebook.

HAZARDOUS MATERIALS AWARENESS CERTIFICATION CHECKLIST**ENTRANCE REQUIREMENTS:**

- Each candidate has met requirements listed in NFPA 1001, Chapter 4 or those established by the authority having jurisdiction.

DEPARTMENT TRAINING RECORDS:

- The manipulative skill for the awareness level is demonstrated during the written examination by using the DOT Emergency Response Guidebook. (ERG).

MANIPULATIVE SKILLS EXAMINATION:

- Not applicable for Awareness Level certification.

CERTIFICATION EXAMINATIONS:

- Each candidate has passed the Fargo Fire Department Pro Board written examination.

HAZARDOUS MATERIALS AWARENESS – CERTIFICATION:

- When all requirements for certification have been met, applicants are eligible to be certified. Those applicants who have met the requirements are issued a certificate.

HAZARDOUS MATERIALS OPERATIONS

INTRODUCTION

The following certification requirements are based on the objectives listed in the National Fire Protection Association (NFPA) 472, Chapter 5, 6.2 and 6.6 Standard *for Professional Competence of Responders to Hazardous Materials Incidents*, as verified and adopted by the Certification Committee.

Through these national standards and certification, firefighters and fire departments have a tool to measure specific levels of skills, abilities and knowledge. The Fargo Fire Department believes by participating in this certification program, Fargo and North Dakota firefighters will be better prepared to provide quality life safety and fire protection for the citizens of Fargo and the State of North Dakota.

The operations level responder shall be that person who responds to hazardous materials/weapons of mass destruction (WMD) incidents for the purpose of protecting people, the environment, or property from the effects of the release.

Operations level responders shall be able to:

- Analyze a hazardous materials/WMD incident.
- Plan an initial response to a hazardous materials/WMD incident.
- Implement the planned response for a hazardous materials/WMD.
- Evaluate the progress of the actions taken at a hazardous materials/WMD incident.

With successful completion of this standard which is based on the NFPA 472, a candidate will have satisfied all requirements for the Hazardous Materials Operations level as listed in OSHA 29 CFR 1910.120(q)(6)(ii) Operations.

HAZARDOUS MATERIALS OPERATIONS CERTIFICATION REQUIREMENTS

Entrance Requirements

In order to certify within the Fargo Hazardous Materials Operations program, firefighters must fulfill the following requirements:

1. Complete department (AHJ) entrance requirements.
2. Maintain records of training.
3. Train on the required written and practical objectives.
4. Meet any other training requirements/prerequisites (Haz Mat Awareness) as defined by the Fargo Fire Department Certification Committee
4. Pass both written and practical skills examinations administered by the Fargo Fire Department Certified Testers.

The FFD acknowledges the importance of and need for entrance requirements as listed in the NFPA 1001, *Standard on Fire Fighter Professional Qualifications*.

Physical Fitness Requirements

The requirements listed in NFPA 1001, Chapter 4 are:

1. Meet the minimum educational requirements established by the Fargo Fire Department or the AHJ.
2. Meet the medical requirements of NFPA 1582, *Comprehensive Occupational Medical Program for Fire Departments*.
4. Physical fitness requirements for entry-level personnel shall be developed and validated by the Fargo Fire Department or the AHJ. Physical fitness requirements shall be in compliance with applicable Equal Employment Opportunity regulations and other legal requirements.

DEPARTMENT TRAINING

Hazardous Material Operations is the second level of training referenced in the NFPA 472 standard which firefighters should master. The hazardous materials operations personnel shall be trained to meet all competencies of the awareness level (Chapter 4), all core competencies at the Operations level (Chapter 5, Chapter 6.2 and 6.6).

The Operations level is a pre-requisite for certification at the Firefighter I level.

Training that meets the requirements as outlined in NFPA 472, Chapter 5, 6.2, 6.6 for hazardous materials operations is conducted at the department level.

Written Objectives

Written objectives for Hazardous Materials Operations Level are covered in the following text:

1. Jones and Bartlett Fundamentals of Firefighter Skills.
2. 2004 DOT Emergency Response Guidebook.
3. Fargo Fire Department SOG's

Manipulative Objectives

Each participant **must** be trained and evaluated in the performance of **all** manipulative skill objectives. Each of the manipulative skill objectives shall be completed swiftly, safely and with competence as defined below:

- **Swiftly** -Each manipulative skill objective must be completed within a reasonable time frame.
- **Safely** -Each manipulative skill objective must be completed safely. Conduct that could injure individual or damage equipment is unacceptable. Equipment should be checked prior to skill testing or training to see that it is safe and functional.
- **Competence** - Each manipulative skill objective is performed in accordance with the Fargo Fire Department Standard. This includes performing the proper steps in sequence. Competence will be measured in accordance with the Fargo Fire Department manipulative skill objectives.

Department Training Officers

Department training officers shall be department certified at the **level** they are teaching.

Department training officers will be responsible for certification training. Their primary responsibility will be to teach and evaluate personnel on the manipulative skills and evolution requirements for each level of certification training. Cognitive learning is a combination of classroom and self study by the student.

Department Training Records

Each participant shall have a training record on file with the department, which indicates whether he/she has trained on all manipulative skills objectives. This record shall be signed off or initialed by a department training officer. Training records must indicate the date, instructor, and total number of hours trained for each manipulative skill objective. The training record check-off for the skill sheets is provided in Appendix A.

CERTIFICATION EXAMINATIONS

After completion of the training process, the candidate may test for certification.

Written Examinations

The written examination is a randomly generated **50-question** test covering the written objectives of the Hazardous Materials Operations Level standard. This examination is based on the candidate's ability to use the Emergency Respond Guidebook (ERG); therefore this book is used during the test. A minimum score of 70% is required to pass the certification exam. Firefighters failing the first attempt of the written exam will be permitted to retest the next time the test is administered.

SAMPLE WRITTEN EXAMINATION QUESTIONS:

The operation of limiting the size of the Hazmat release area, once it has escaped from its container, best describes:

- a. Containment
- b. **Concealment**
- c. Control
- d. **Confinement**

Health effects appearing within 72 to 96 hours following an exposure to a toxin would be considered:

- a. Sub-acute
- b. Chronic
- c. **Acute**
- d. Post chronic

Manipulative Skills Examination

This is a two-step examination. The first step is a department records check and the second step is the manipulative skills examination. Certification testers certified to Tester II or III by the Fargo Fire Department conduct the examination.

Training records are checked. If records are inadequate, corrective action must be taken before proceeding to the next step. The records must meet minimum requirements and are checked for the following:

1. Candidate has been trained in each manipulative skill for the level being evaluated.
2. A department training officer has signed off each manipulative skill.
3. The total number of hours trained on each manipulative skill is listed.

The manipulative skills examination is graded on a 100% pass/fail basis. The test is graded in the following three areas:

- **Swiftly** -Each manipulative skills objective must be completed within a reasonable time frame.
- **Safely** -Each manipulative skills objective must be completed safely. Conduct that could injure individual or damage equipment is unacceptable. Equipment should be checked prior to skill testing or training to see that it is safe and functional.
- **Competence** - Each manipulative skill objective is performed in accordance with the Fargo Fire Department standard. This includes performing the proper steps in sequence. Competence will be measured in accordance with the Fargo Fire Department manipulative skill objectives.

Participants are tested on **THREE (3)** manipulative skills. No prior notification of the skills being tested will be given. Participants are given two attempts if necessary to perform each skill. If they fail on the second attempt, they have failed the skills portion of the examination and will be required to complete further training on those areas that they were not successful in during the testing. Candidates taking a third and fourth attempt will retest on the skill they failed. **No training, teaching, or coaching is allowed during the testing.**

If probationary Fargo Firefighter candidates fail the third and fourth attempt, they will be dismissed from service. Incumbents who fail a third and fourth attempt will have up to a three year window to retake the test. If not successful in three years, they will have to start the process from the beginning.

HAZARDOUS MATERIALS OPERATIONS CERTIFICATION

When all requirements for certification have been met, firefighters are eligible to be certified.

Those applicants who have met the requirements are issued a certificate.

Prerequisites for Certification:

Applicants for certification at the Operations level must be certified through the Fargo Fire Department Certification Committee at the Hazardous Materials First Responder Awareness Level. Hazardous Materials Operations Level certification will not be issued until participants have fulfilled this requirement

HAZARDOUS MATERIALS OPERATIONS
CERTIFICATION CHECKLIST

ENTRANCE REQUIREMENTS:

- Each participant has met requirement listed in NFPA 1001, Chapter 4 or those established by the authority having jurisdiction.

DEPARTMENT TRAINING RECORDS:

- Each participant has a training record on file with the department that shows:
 1. A learning experience in each manipulative skill objective.
 2. Dates of training.
 3. Initials of instructors.
 4. Total number of hours trained in each manipulative skill objective.
- Each participant has trained on the Awareness and/or Operations level written objectives.

ADDITIONAL TRAINING/PREREQUISITE REQUIREMENTS:

- Each participant is certified at the Hazardous Materials First Responder Awareness Level.
- Complete IS-700 and 100: Introduction to ICS.
- Complete IS-200: Basic ICS.

CERTIFICATION EXAMINATIONS:

- Each participant has passed the Fargo Fire Department Pro Board written examination.
- Each participant has passed the Fargo Fire Department manipulative skills testing examination administered by an approved Certification Tester.

MANIPULATIVE SKILL OBJECTIVES

DECONTAMINATION

NFPA 472, 5.1.2.2(3), 5.1.2.2(3) d - e, 5.3.3, 5.4.1(4)

Skill 1: Demonstrate Emergency Decontamination of a victim using water.

CONDITION: Given water supply, hose/nozzles, and a 2-firefighter team. Victim to be decontaminated to be dressed in splash suit or fighter turnouts or street clothing. PPE for responders:
 Fire Service – Minimum Firefighter Turnouts, SCBA.
 *PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select appropriate site to minimize runoff contamination.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Responder directs victim on procedures.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Rinse personnel starting from the head, working towards the feet.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Victim being decon removes contaminated clothing as much as possible.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. As necessary, decon team members touch outside of clothing being removed to avoid cross contamination.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Victim places contaminated articles in one designated area within contamination zone.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Victim given protective clothing.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. Victim directed to exit area for further evaluation.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.1.2.2(3) a – e, 5.4.1, 5.4.2

Skill 2: Demonstrate the setting up of a multiple station decontamination corridor.

CONDITION: Given equipment as determined by incident and qualified hazmat technician, and a 2-member team and using the incident management system.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Establish and enforce scene control.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Establish means of evidence preservation.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Select appropriate site, up wind of incident, drainage towards “hot” zone.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Clearly marked entry point.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Tool drop.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Confinement of decon solutions and runoff water.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Wash station, (may be multiple).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. Rinse station, (may be multiple).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
9. SCBA drop/Bottle change.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
10. PPE drop station(s).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
11. Clearly marked exit point.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.1.2.2(3) e, 5.3.3, 5.4.1(4), 5.4.2, 5.4.4(6-7)

Skill 3: Demonstrate decontamination of emergency responder.

CONDITION: Given a Decon corridor, water supply, hose/nozzles, a 2-member team, and a responder dressed in appropriate level of protection to be decontaminated. PPE as determined by incident and qualified hazmat technician:
 Fire Service – Minimum Firefighter Turnouts, SCBA.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Direct responder to enter entry point.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Direct responder to drop tools in designated area.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Direct responder to enter wash station.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Rinse personnel starting from the head.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Decon personnel control run-off of wash station.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Direct responder to drop SCBA on designated area.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Decon team members touch outside of clothing being removed to avoid contaminating responders.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. Remove contaminated PPE or clothing.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
9. Place contaminated articles in one designated area within corridor.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
10. Direct responder to exit designated point for:		
- Inner clothing removal	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Personnel shower	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Medical evaluation	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
 Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

PERSONAL PROTECTIVE EQUIPMENT

NFPA 472, 5.1.2.2(2)c

Skill 4: Identify and describe the function of each component of the Self-Contained Breathing Apparatus (SCBA).

CONDITION: Given a Self-Contained Breathing Apparatus as used by department.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Backpack/harness.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Air cylinder: cylinder, valve, and pressure gauge.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Regulator assembly: high-pressure hose, low-pressure alarm, main line valve, emergency by-pass valve, secondary gauges.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Face piece assembly: low pressure hose, exhalation valve, and head harness.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. PASS device.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.3.3(1), 5.4.4(7), 6.2.4.1, 6.2.4.1(3)

Skill 5: Demonstrate donning and doffing Self-Contained Breathing Apparatus (SCBA).

CONDITION: Wearing full protective clothing and SCBA.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
Donning		
1. Crouch or kneel at SCBA (if donned from ground).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Check SCBA cylinder pressure gauge (verbalize pressure).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Open cylinder valve fully.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Check regulator and cylinder gauge-gauges should be within 100 psi of each other.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Don backpack and fasten/tighten all straps (over-the-head or coat method).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
6. Don face piece, adjust head harness, and check seal and exhalation valve.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
7. Don protective hood.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
8. Attach low-pressure hose to regulator or face piece.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
9. Turn on or ensure PASS is active.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
10. Don helmet.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
11. Don gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

Steps may vary between various manufactures; however, all of the above should be covered during the donning process.

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.3.3(1), 5.4.4(7), 6.2.4.1, 6.2.4.1(3)

Doffing

- 1. Disconnect regulator from face piece or low-pressure hose from regulator.
- 2. Doff SCBA and place on ground, close cylinder valve.
- 3. Relieve excess pressure from regulator, listen for low-pressure alarm.
- 4. Fully extend all straps on SCBA backpack.
- 5. Fully extend all straps on face piece.
- 6. Don face piece, adjust head harness.
- 7. Inspect entire apparatus for cleanliness and damage.

<u>1st Att.</u>	<u>2nd Att.</u>
Y N	Y N
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
 Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.3.3, 5.4.4, 6.2.3.1, 6.2.3.1(3), 6.2.4.1, 6.2.4.1(3)

Skill 6: Assist/Don emergency response personnel in donning hooded chemical splash protective clothing and SCBA.

CONDITION: Given a hooded splash suit, boots, gloves, duct tape, helmet, SCBA, and a 2-member team, **one person donning** and **one dressing**.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Select appropriate PPE.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Skills for person Donning Splash suit.		
- Don hooded splash suit.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Don boots.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Don SCBA.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Don face piece.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Check face seal.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Don inner gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Don outer gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Don head protection.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Skills for person assisting in Donning of Splash suit.		
- Assist donning hooded splash suit.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist donning boots.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Correctly tape suit to boots.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Completely tape hood of PPE to SCBA face piece, do not cover field of vision on face piece.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist donning SCBA.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Tape front closure area and neck area.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist donning inner gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Assist donning outer gloves.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Connect low pressure hose to SCBA regulator.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
- Tab all ends of tape (2" minimum).	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

PERFORMING DEFENSIVE CONTROL ACTIONS

NFPA 472, 6.6.4.1(4-5)

Skill 7: Demonstrate stopping product release by closing remote valves.

CONDITION: Given a simulated spill from a tank, remote valve, and a 2-firefighter team, PPE:
 Fire Service – Minimum Firefighter Turnouts, and SCBA.
 *PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Identify appropriate level of PPE.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Confirm location of remote valve.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Approach valve location staying out of product.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Open or close valve.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Exit area maintaining team integrity.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.6.3.1, 6.6.4.1, 6.6.4.1(3)

Skill 8: Demonstrate use of unmanned master stream (300 gpm or greater) for vapor suppression or dispersion.

CONDITION: Given a simulated spill, water supply, appliance, 100 ft. 2 ½” hose, and a 2-firefighter team, PPE for responders:
 Fire Service – Minimum Firefighter Turnouts, and SCBA.
 *PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Determine system is set up correctly.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Signals for water.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Adjust stream of appliance.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Flow for 1 minute.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
5. Completed skill in allotted time.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.6.3.1, 6.6.4.1, 6.6.4.1(1 & 3)

Skill 9: Demonstrate the proper application of fire fighting foam on a simulated hazardous materials spill or fire.

CONDITION: Given a simulated spill (36 sq. ft.), foam application system (apparatus or foam extinguisher), PPE:
 Fire Service – Minimum Firefighter Turnouts, and SCBA.
 *PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Approach spill upwind/upgrade.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Demonstrate proper application techniques.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Do not direct stream directly into pool.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Deflect foam off solid surface or “rain” onto surface.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

	<u>PASS</u>	<u>FAIL</u>
First Attempt	<input type="checkbox"/>	<input type="checkbox"/>
Second Attempt	<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.6.3.1, 6.6.4.1, 6.6.4.1(3)

Skill 10: Construct a dike to divert a spill.

CONDITION: Given a simulated moving spill, sand or dirt, shovels, plastic, and a 3-person team, PPE:

Fire Service – Minimum Firefighter Turnouts, and SCBA.

*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Construct a dike 6 feet long and 6 inches high.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Work ahead of spill, out of product.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Two personnel build dike and one standby as safety.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Divert spill.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.6.3.1, 6.6.4.1, 6.6.4.1(3)

Skill 11: Construct a simple dam to retain a spill.

CONDITION: Given a simulated spill, sand or dirt, shovels, plastic, and a 3-person team, PPE:

Fire Service – Minimum Firefighter Turnouts, and SCBA.

*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Construct a dam 6 feet long and 8-12 inches high.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Work ahead of spill, out of product.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Two personnel build dam and one member to standby as safety.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
4. Retain spill.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 6.6.3.1, 6.6.4.1, 6.6.4.1(3)

Skill 12: Demonstrate the use of absorbent material to control a spill of a hazardous material.

CONDITION: Given a simulated spill, absorbent pad or other material, shovels, and a 3-person team, PPE:
Fire Service – Minimum Firefighter Turnouts, and SCBA.
*PPE donned before skill begins.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2nd Att.</u>
	Y N	Y N
1. Retain spill by putting absorbent materials in place.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
2. Work ahead of spill, out of product.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
3. Two personnel to put materials in place and one member to standby as safety.	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>

PERFORMANCE RATING ON THIS SKILL:

First Attempt
Second Attempt

<u>PASS</u>	<u>FAIL</u>
<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.2.3 (3)

Skill 13: Identify hazard and response information using MSDS

Condition: Given an MSDS the candidate will identify information from the sheet as asked by the tester.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	<u>1st Att.</u>	<u>2ndAtt.</u>
1. Verbally identifies the physical and chemical characteristics of the material (will the material float or sink in water, is the vapor lighter or heavier than air)	Y/N	Y/N
2. Verbally identifies the physical hazards of the material	Y/N	Y/N
3. Verbally identifies the health hazards of the material	Y/N	Y/N
4. Verbally identifies the signs and symptoms of exposure to the material	Y/N	Y/N
5. Verbally identifies the routes of entry into the body (most common)	Y/N	Y/N
6. Verbally identifies the permissible exposure limits	Y/N	Y/N
7. Verbally identifies the responsible party contact	Y/N	Y/N
8. Verbally identifies the precautions for safe handling (including hygiene practices, protective measures, and procedures for cleanup of spills and leaks)	Y/N	Y/N
9. Verbally identifies the applicable control measures, including personal protective Equipment	Y/N	Y/N
10. Verbally identifies the emergency first aid procedures for eye contamination	Y/N	Y/N

PERFORMANCE RATING ON THIS SKILL:

PASS FAIL

First Attempt

Second Attempt

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

NFPA 472, 5.2.1.1.1 to 5.2.1.1.5**Skill 14: Hazardous Materials container identification**

Condition: Given pictures of (10) ten hazardous materials containers, a 2004 DOT Emergency Response Guidebook, match names of a minimum of 7 correctly.

Pictures include the following:

1. Non-pressure tank car without expansion dome.
2. Non- pressure intermodal
3. Non-pressure liquid cargo tank
4. Low pressure liquid cargo tank
5. Cryogenic liquid tank car
6. Drum
7. Pressure intermodal
8. Pressure tank car
9. Corrosive liquid cargo tank
10. Carboy
11. Cryogenic liquid cargo tank
12. Non-pressure facility tank
13. Pressure facility tank
14. Cylinder
15. Dry bulk cargo tank
16. High pressure cargo tank
17. Bag
18. Cryogenic liquid facility tank
19. Non-pressure tank car with expansion dome

Candidate Name _____

Tester Name 1st Attempt _____Tester Name 2nd Attempt _____

Date: _____

Reporting and Documenting the Incident

NFPA 472, 6.2.5.1

Skill 15: Complete a hazardous materials NFIRS report. You have been supplied with a National Fire Incident Reporting System on a computer and an incident scenario.

Condition: You have access to a computer and a hazardous materials scenario to complete the report.

APPLICANT PERFORMED THE FOLLOWING COMPETENCIES:

	1 st Att.	2 nd Att.
1. Complete all required fields.	Y/N	Y/N
2. Check spelling.	Y/N	Y/N
3. Other pertinent information in narrative. (Note: Narrative must be completed)	Y/N	Y/N

Candidate Name _____

Tester Name 1st Attempt _____

Tester Name 2nd Attempt _____

Date: _____

**APPENDIX A
TRAINING RECORD**

**HAZARDOUS MATERIALS FIRST RESPONDER - OPERATIONS
TRAINING RECORD / IN-HOUSE COMPREHENSIVE EXAM**

NAME: _____ SSN: _____ - _____ - _____ DEPARTMENT: _____

SECTION	TRAINING RECORD			IN-HOUSE COMP. EXAM			MANIPULATIVE SKILL-DEMONSTRATE
	DATE	INST.	HR'S	DATE	INST.	P/F	
Decontamination							1. Emergency Decontamination - Wet
							2. Demonstrate setting-up a multiple station decon area
							3. Demonstrate deconning emergency responders or victims
Personal Protective Clothing							4. Identify and describe the function of each component of the SCBA.
							5. Demonstrate donning & doffing SCBA
							6. Assist emergency response personnel in donning hooded chemical splash protective clothing
Defensive Control							7. Demonstrate stopping product release by closing remote valves.
							8. Demonstrate use of unmanned master stream (300 gpm or greater) for vapor suppression or dispersion.
							9. Proper application of fire fighting foam on simulated hazardous materials spill or fire.
							10. Construct a dike to divert a spill.
							11. Construct a simple dam to retain a spill.
							12. Demonstrate use of an absorbent material.
MSDS							13. Identify information on MSDS.
Container ID							14. Identify hazardous materials containers.
Reporting and documenting							15. Hazardous Materials NFIRS report

Tester Instructions for Manipulative Skills Testing

Standard and skill(s) being tested:

Date: _____ **Location:** _____

Testers, please review the following procedures and follow them as outlined when testing.

Prior to testing, review training records of new recruits to ensure they have completed all training requirements or ensure that all incumbents meet the qualifications for testing. Training Chief can verify qualifications for incumbent testing.

During testing, there will be two assigned testers. One will be the **lead tester** and the other the **safety officer**. If a candidate fails and needs to retest any portion, the testers will trade positions and retest the candidate with the lead tester now the safety officer and the safety officer now the tester.

As **safety officer**, you will not assist with the testing process. You are there to protect the participant from injury during the testing process. The safety officer should ensure that all participants testing wear appropriate PPE and all equipment is in safe working condition. The safety officer shall always be in a position to observe all participants and ensure their safety at all times during testing.

Candidates will wait in an area separate from the testing area. A proctor will monitor the candidates to ensure that they don't discuss the stations being tested.

Testing Procedures

Testers will score the participants in the following manner:

- A. Swiftly** completing the skill in a reasonable time, exercising **safety** in completing the skill, and show **competence** by completing all performance criteria.
- B.** Candidates must pass all critical competencies to pass the individual skill. If they do not do this they fail the first attempt. Candidates are given two attempts on the first test date. The candidate will be referred to the Chief of Training for further training in that skill and will then test at a later date. The candidate will test on that skill at the retest.
- C.** Testers will not coach or instruct during the testing process.
- D.** Testers will ensure that all equipment is in safe working condition and ensure that all participants are wearing appropriate PPE during the test as required by the skills being tested.

While administering the test, the tester will read the skills to be demonstrated and the conditions to be met.

The tester will ask for any questions. Questions will not be answered after the testing on a skill begins.

- A. Candidates may take time to discuss a plan of action with their team mate before the skill begins.
- B. Candidates should verbally state, to the tester, that they are ready to begin the skill.
- C. Candidates are encouraged to verbalize during the completion of the skill competencies.
- D. Candidates should verbally state to the tester that they have completed the skill.
- E. Inform the candidates that there should be no running during the test. This is considered a safety violation and will not be tolerated.
- F. Leaving the testing area will not be permitted. The only exception to this rule is if a Fargo Fire Crew is summoned to an emergency run. Testing will resume on their return if it is less than one hour or if testing is still being conducted.

Skill testing sheets will be completed by the lead tester including date, name of tester(s), candidate name, pass or fail and signed by both tester and candidate. **Sheets shall remain with the tester, put in a sealed envelope and returned to the Certification Coordinator.**

Post Test

1. Conduct a briefing with the participants.
2. Thank them and ask if there are any questions.
3. If there are any problems or concerns to write them down and forward to the certification committee.
4. Make sure all equipment is returned to service.

Incident Report Scenario for Haz Mat

Scenario

On Saturday, May 23, 2005 at 15:13 hours a call was received from 112 Main Av., Fargo, ND, 58102 for gasoline leaking from a vehicle. Engine 801 with Capt. Smith, Firefighters Jones and Anderson responded. They arrived on scene at 15:18 hours to find a 1968 Chevrolet Camaro with a rusted leaking gas tank. There was a sizable (about 2 gallons) puddle of fuel on the ground. Capt. Smith surveyed the scene for exposure issues and saw none. He had the firefighters pull a pre-connect and push the car forward out of the gasoline puddle.

A sealant was used to stop the leak. An absorbent was used to pick up the fuel spill. Absorbent was picked up for disposal.

Incident was controlled at 15:40 and units cleared at 15:50

Car Serial number: 123456

ND license 7890

There were no other actions taken.

The incident number assigned to the run is 08-000xxxx.

C shift was on duty.

The Fargo FDID # is 09109. Every fire department has its own ID number for NFIRS.

