

Report Date: 26 Mar 2014

**Summary Report for Individual Task**  
**031-627-3036**  
**Identify Components of an Improvised Chemical or Biological (CB) Weapons Lab**  
**Status: Approved**

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DISTRIBUTION RESTRICTION: Approved for public release; distribution is unlimited.

DESTRUCTION NOTICE: None

**Condition:** You're conducting a cordon search. You have the National Institute for Occupational Safety and Health (NIOSH) Pocket Guide to Chemical Hazards (NPG), Field Manual (FM) 3-11.9, FM 3-11.22, unit standard operating procedures (SOP), a cordon and search and a directive from higher headquarters to conduct a cordon and search. You enter a room containing various materials and equipment suggestive of some sort of lab. Some iterations of this task should be performed in MOPP 4.

**Standard:** Identify components of an improvised CB weapons lab by conducting steps 1-5 of the performance steps by identifying equipment and materials that can be used to process or produce CB agents in accordance with (IAW) FM 3-11.9 and FM 3-11.22.

**Special Condition:** None

**Safety Level:** Low

**MOPP:** Sometimes

<b>Task Statements</b>
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**Cue:** None

<b>DANGER</b>
None

<b>WARNING</b>
None

<b>CAUTION</b>
None

**Remarks:** None

**Notes:** None

## Performance Steps

Remarks: The Chain of Command will provide the NIOSH manual.

1. Develop a checklist of equipment needed to facilitate the search of the chemical or biological weapons lab. (This list is not all inclusive).

- a. Personal protective equipment (PPE).
- b. Waste disposal equipment.
- c. Decontamination equipment.
- d. Glove boxes.
- e. Bio-safety equipment.

2. List all indicators that a clandestine lab may be present.

Note: Clandestine is defined as "secrecy." Improvised is used for terminology of the task, not to be confused with Improvised Explosive Devices (IED). The clandestine labs can be used to produce both Chemical and Biological weapons to include IEDs.

- a. The presence of dead animals or insects (frogs, toads, birds, insects or other domestic animals).
- b. Dead or dying foliage.

Note: Environmental contamination may be due to poor waste handling, inadequate filtration and toxic fumes, or intentional release.

- c. Large air handling systems.
- d. Disposal systems.
- e. Security system in place.
- f. Generators.

Note: Clandestine activities can be hidden within legitimate facilities and operations. They can alternate between legitimate and illicit productions.

3. Identify that clandestine lab equipment may be present. (This is not all inclusive).

- a. Reaction vessels and fermentors: empty bottles, plastic buckets, coffee pots, pyrex cookware.
- b. Cooling and heating devices: camp stoves and coolers, hot plates.
- c. Condensers: PVC or copper tubing.
- d. Addition funnels: plastic bottles, sports drink bottles.
- e. Mixers and agitators: electric drills.
- f. Filter funnels: coffee filters, bed sheets.
- g. Ventilation equipment: plastic sheeting, duct tape, blowers, duct fans.

h. Air filtration and scrubbers: furnace filters, high energy particulate air (HEPA) filters, cat litter, charcoal.

i. Spray devices: fire extinguishers, bug spray pump devices, plastic spray bottles.

j. Engineering: plans or blueprints.

Note: These equivalents are not necessarily the best or only way to improvise for more expensive or advanced equipment.

4. Identify precursors of chemical or biological weapons material production IAW FM 3-11.9 Table F-1.

5. List all possible terrorist activity, occupancy, location, and on-scene warning signs:

a. Symbolic and historical facilities.

b. Government-related facilities.

c. Public buildings or assembly areas (shopping malls, convention centers, entertainment venues, tourist destinations).

d. Businesses that conduct operations regarded as controversial (abortion clinics, nuclear facilities, furriers).

e. Infrastructure necessary for the continued functioning of society (power plants, communication hubs, water treatment plants, mass transit, hospitals).

f. Centers of economic investment.

g. Anonymous tips, phone calls, or notes of a threatening nature that may identify groups or carry extremist messages.

h. Chemical containers, spray devices, or lab equipment in unusual locations.

i. Plans, blueprints, photographs, or engineering specifications for federal or commercially owned buildings when there is no official reason or need to have them.

j. Packages or heavy envelopes that arrive in the mail from unknown senders or that have a peculiar odor or appearance.

k. Stolen or hijacked spray devices (crop dusters, agricultural sprayers, insect foggers or sprayers).

l. Stolen toxic industrial materials (TIM) containers and transporters.

(Asterisks indicates a leader performance step.)

**Evaluation Guidance:** Score the Soldier GO if all performance measures are passed (P). Score the Soldier NO-GO if any performance measure is failed (F). If the Soldier scores NO-GO, show the Soldier what was done wrong and how to do it correctly.

**Evaluation Preparation:** Setup: Provide the Soldier with the items listed in the condition statement. The Chain of Command will provide the NIOSH manual for the Soldier.

Brief Soldier: Tell the Soldier to identify components of an improvised chemical or biological weapons lab.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Developed a checklist of equipment needed to facilitate the search of the chemical or biological weapons lab. (This list is not all inclusive).			
a. Personal protective equipment (PPE).			
b. Waste disposal equipment.			
c. Decontamination equipment.			
d. Glove boxes.			
e. Bio-safety equipment.			
2. Listed all indicators that a clandestine lab may be present.			
a. The presence of dead animals or insects (frogs, toads, birds, insects or other domestic animals).			
b. Dead or dying foliage.			
c. Large air handling systems.			
d. Disposal systems.			
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d. Addition funnels: plastic bottles, sports drink bottles.			
e. Mixers and agitators: electric drills.			
f. Filter funnels: coffee filters, bed sheets.			
g. Ventilation equipment: plastic sheeting, duct tape, blowers, duct fans.			
h. Air filtration and scrubbers: furnace filters, HEPA filters, cat litter, charcoal.			
i. Spray devices: fire extinguishers, bug spray pump devices, plastic spray bottles.			
j. Engineering: plans or blueprints.			
4. Identified precursors of chemical or biological weapons material production IAW FM 3-11.9 Table F-1.			
5. Listed all possible terrorist activity, occupancy, location, and on-scene warning signs:			
a. Symbolic and historical facilities.			
b. Government-related facilities.			
c. Public buildings or assembly areas (shopping malls, convention centers, entertainment venues, tourist destinations).			
d. Businesses that conduct operations regarded as controversial (abortion clinics, nuclear facilities, furriers).			
e. Infrastructure necessary for the continued functioning of society (power plants, communication hubs, water treatment plants, mass transit, hospitals).			
f. Centers of economic investment.			
g. Anonymous tips, phone calls, or notes of a threatening nature that may identify groups or carry extremist messages.			
h. Chemical containers, spray devices, or lab equipment in unusual locations.			
i. Plans, blueprints, photographs, or engineering specifications for federal or commercially owned buildings when there is no official reason or need to have them.			
j. Packages or heavy envelopes that arrive in the mail from unknown senders or that have a peculiar odor or appearance.			
k. Stolen or hijacked spray devices (crop dusters, agricultural sprayers, insect foggers or sprayers).			
l. Stolen TIM containers and transporters.			

**Supporting Reference(s):**

Step Number	Reference ID	Reference Name	Required	Primary
	FM 3-11.22	Weapons of Mass Destruction - Civil Support Team Operations	Yes	Yes
	FM 3-11.9	POTENTIAL MILITARY CHEMICAL/BIOLOGICAL AGENTS AND COMPOUNDS	Yes	Yes
	NIOSH 2010-168	NIOSH Pocket Guide to Chemical Hazards, Sep 2010	Yes	No

**Environment:** Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 ENVIRONMENTAL-RELATED RISK ASSESSMENT. Environmental protection is not just the law but the right thing to do. It is a continual process and starts with deliberate planning. Always be alert to ways to protect our environment during training and missions. In doing so, you will contribute to the sustainment of our training resources while protecting people and the environment from harmful effects. Refer to FM 3-34.5 Environmental Considerations and GTA 05-08-002 Environmental-Related Risk Assessment.

**Safety:** In a training environment, leaders must perform a risk assessment in accordance with FM 5-19, Risk Management. Leaders will complete a DA Form 7566 COMPOSITE RISK MANAGEMENT WORKSHEET during the planning and completion of each task and sub-task by assessing mission, enemy, terrain and weather, troops and support available-time available and civil considerations, (METT-TC). Note: During MOPP training, leaders must ensure personnel are monitored for potential heat injury. Local policies and procedures must be followed during times of increased heat category in order to avoid heat related injury. Consider the MOPP work/rest cycles and water replacement guidelines IAW FM 3-11.4, Multiservice Tactics, Techniques, and Procedures for Nuclear, Biological, and Chemical (NBC) Protection, FM 3-11.5, Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Decontamination. Everyone is responsible for safety. A thorough risk assessment must be completed prior to every mission or operation.

**Prerequisite Individual Tasks :**

Task Number	Title	Proponent	Status
031-506-1002	Provide Technical Advice on Chemical Agents and Compounds	031 - CBRN (Individual)	Approved
031-506-4017	Maintain CBRN Situational Awareness	031 - CBRN (Individual)	Approved
031-503-1011	Identify Personal Protective Equipment (PPE)	031 - CBRN (Individual)	Approved
031-506-1013	Collect Chemical and Biological Samples	031 - CBRN (Individual)	Approved
031-503-1042	Protect Yourself from CBRN Injury/Contamination when Changing MOPP Using the JSLIST	031 - CBRN (Individual)	Approved

**Supporting Individual Tasks :**

Task Number	Title	Proponent	Status
031-503-1016	Implement Mission-Oriented Protective Posture (MOPP)	031 - CBRN (Individual)	Approved
031-627-1101	Survey Hazardous Materials/Weapons of Mass Destruction (HazMat/WMD) Incidents at the Awareness Level.	031 - CBRN (Individual)	Approved
031-506-1052	Protect Yourself and Others From Chemical and Biological (CB) Injury/Contamination by Using a Collective Protection Shelter	031 - CBRN (Individual)	Approved
031-503-1042	Protect Yourself from CBRN Injury/Contamination when Changing MOPP Using the JSLIST	031 - CBRN (Individual)	Approved

**Supported Individual Tasks :**

<b>Task Number</b>	<b>Title</b>	<b>Proponent</b>	<b>Status</b>
031-627-4021	Implement Quality Control Procedures on the Analytical Laboratory System (ALS)	031 - CBRN (Individual)	Approved
031-COM-1035	Protect Yourself from Chemical And Biological (CB) Contamination Using Your Assigned Protective Mask	031 - CBRN (Individual)	Approved
031-627-1104	Identify the Role of Awareness Level personnel during Hazardous Materials/Weapons of Mass Destruction (HazMat/WMD) incidents.	031 - CBRN (Individual)	Approved
031-627-3017	Advise On-Scene Control Measures	031 - CBRN (Individual)	Approved
031-627-3019	Recommend Level of Personal Protective Equipment (PPE)	031 - CBRN (Individual)	Approved
031-627-3039	Identify Components of Chemical or Biological (CB) Dissemination Devices	031 - CBRN (Individual)	Approved
031-506-1052	Protect Yourself and Others From Chemical and Biological (CB) Injury/Contamination by Using a Collective Protection Shelter	031 - CBRN (Individual)	Approved
031-627-1101	Survey Hazardous Materials/Weapons of Mass Destruction (HazMat/WMD) Incidents at the Awareness Level.	031 - CBRN (Individual)	Approved

**Supported Collective Tasks :**

<b>Task Number</b>	<b>Title</b>	<b>Proponent</b>	<b>Status</b>
03-3-1034	Conduct Sampling	03 - CBRN (Collective)	Approved
03-3-0043	Conduct WMD Site Exploitation	03 - CBRN (Collective)	Approved

**ICTL Data :**

<b>ICTL Title</b>	<b>Personnel Type</b>	<b>MOS Data</b>
AOC 74A - Chemical Officer - 1LT	Officer	AOC: 74A, Rank: 1LT
MOS 74D - CBRN Specialist - SL3	Enlisted	MOS: 74D, Skill Level: SL3
ALC CTL 2011	Enlisted	MOS: 74D, Skill Level: SL3