

Summary Report for Individual Task
031-505-3086
Interpret an Effective Downwind Message
Status: Approved

Distribution Restriction: Approved for public release; distribution is unlimited.

Destruction Notice: None

Foreign Disclosure: FD5 - This product/publication has been reviewed by the product developers in coordination with the MSCoE, Fort Leonard Wood, Missouri foreign disclosure authority.

This product is releasable to students from all requesting foreign countries without restrictions.

Condition: You are a CBRN Officer/NCO operating in a field environment and you receive the latest Effective Downwind Message (EDM) in US Message Text Format (USMTF). You must interpret the EDM to use the information to construct CBRN reports under the CBRN WRS as required. You have Field Manual (FM) 3-11.3, and Graphic Training Aid (GTA) 03-06-008 available. Some iterations of this task should be performed in MOPP 4.

Standard: Interpret an EDM by identifying message header information and what lines Alpha through Golf represent IAW Graphic Training Aid (GTA) 03-06-008.

Special Condition: None

Safety Risk: Low

MOPP 4: Sometimes

Task Statements

Cue: None

DANGER
None

WARNING
None

CAUTION
None

Remarks: None

Notes: None

Performance Steps

1. Receive EDM from higher headquarters.

Note: e EDM provides downwind speeds and directions for the selected seven yield groups during an initial 6-hour period.

2. Determine the 6-hour effective time period that the EDM is valid for. The DTG in ZULUM represents the DTG the EDM was prepared.

3. Obtain the current time by looking at your watch or an available clock.

4. Determine which line of the EDM to use, ALPHAM (A), BRAVOM (B), CHARLIEM (C), DELTAM (D), ECHOM (E), FOXTROMTM (F), and GOLFM (G).

a. Line A – nuclear yield is less than or equal to 2 Kilotons (KT).

b. Line B – nuclear yield is more than 2 KT but less than or equal to 5 KT.

c. Line C – nuclear yield is more than 5 KT but less than or equal to 30 KT.

d. Line D – nuclear yield is more than 30 KT but less than or equal to 100 KT.

e. Line E – nuclear yield is more than 100 KT but less than or equal to 300 KT.

f. Line F – nuclear yield is more than 300 KT but less than or equal to 1,000 KT (1 Megaton).

g. Line G – nuclear yield is more than 1,000 KT but less than or equal to 3,000 KT (3 Megaton).

5. Select the appropriate line (A,B,C,D,E,F,and G) of the EDM based on the current time, and decode each line.

a. The first three digits (ddd) contain the downwind direction for the particular yield group in degrees grid from GN.

b. The next three digits (sss) contain the Estimated Wind Speed (EWS), in kph.

c. The last three digits (***) represent the expanded angle, in degrees, between the left and right radial lines. They are only reported when the angle from the wind vector plot exceeds 40°. (Last digit in ADP [NATO ADatP-3 Data Base] format—7 digit total vice 9 EDM line.)

(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 task condition statement.

Brief Soldier: Tell the Soldier to interpret an EDM.

PERFORMANCE MEASURES	GO	NO-GO	N/A
1. Determined the beginning and ending of EDM's 6-hour effective time period.			
2. Selected the EDM line (A,B,C,D,E,F,and G) to use based on the nuclear yield.			
3. Decoded the selected EDM line and the Soldier answered the following:			
a. The downwind direction is _____.			
b. The estimated wind speed is _____ kph.			
c. Expanded angle is _____ degrees. Only when angle from the wind vector plot exceeds 40 degrees.			

Supporting Reference(s):

Step Number	Reference ID	Reference Name	Required	Primary
	FM 3-11.3	Multiservice Tactics, Techniques, and Procedures for Chemical, Biological, Radiological, and Nuclear Contamination Avoidance	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.

Safety: In a training environment, leaders must perform a risk assessment in accordance with ATP 5-19, Risk Management. Leaders will complete the current Deliberate Risk Assessment Worksheet in accordance with the TRADOC Safety Officer 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 : None

Supporting Individual Tasks : None

Supported Individual Tasks : None

Supported Collective Tasks : None

ICTL Data :

ICTL Title	Personnel Type	MOS Data
AOC 74A - Chemical Officer - 1LT	Officer	AOC: 74A, Rank: 1LT
74A, CBRN Officer BOLC - Version 13	Officer	AOC: 74A, Rank: 1LT
MOS 74D - CBRN Specialist - SL2	Enlisted	MOS: 74D, Skill Level: SL2