



AFCESA A-GRAM



AIR FORCE CIVIL ENGINEER SUPPORT AGENCY

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AIR FORCE QUALIFICATION TRAINING PACKAGE (AFQTP) — M-272 WATER TESTING KIT, CHEMICAL AGENTS 3E4X1 AND 3E9X1

SYNOPSIS:

We have recently completed a new contingency AFQTP, M-272 Water Testing Kit, Chemical Agents. Included in the new CD are over 325 graphics and photographs, 7 video clips and 50 review questions.

M-272 WATER TESTING KIT, CHEMICAL AGENTS – VERSION 1

Chemical warfare is a viable threat. Results from the M-272 testing kit can provide valuable threat analysis regarding the presence or absence of certain chemical agents in a water source. This versatile kit is a valuable tool within the Utilities and Readiness career fields where water purity is of major concern.

The program opens with a brief discussion of the impact chemical agents can have on our quality of life. Whether the threat arises from a post-attack environment, a chemical plant



accident, or a terrorist incident, the

M-272 Water Testing Kit is a primary tool for assessing chemical contamination.

The second lesson describes the kit's physical and chemical components. Safety precautions are discussed to ensure the user handles the various chemical components properly. Also mentioned are the proper individual protective equipment requirements for an after-attack scenario.

The M-272 Water Testing Kit can detect harmful levels of mustard, cyanide, lewisite, and nerve agents. Lesson 3 reviews what a positive test result looks like for each one of these agents. If the potability of a water source is in question, the user must be familiar with what colorimetric reactions indicate the presence of a chemical agent.

Since kits must be ready to meet the next chemical threat whenever it occurs, lesson 4 demonstrates the various pre- and post-operational checks that must be performed on the kits to keep them ready for immediate field use.

Knowing where and how to pull water samples is not always obvious. Lesson 5 presents instructions on how to pull good, representative water samples that accurately reflect the quality of water sources in question.

In Lesson 6, step-by-step instructions demonstrate how to perform each chemical agent test as well as the appropriate order in which to conduct them. The accuracy of the data

depends on how well each individual test is performed and whether the water sample is representative of the water source.

The program closes with Lesson 7, which explains how to prepare and use the chemical simulants included with each M-272 Water Testing Kit. By acting like real chemical agents, these simulants let the student see what a positive chemical agent looks like in a training scenario. Once through this program, the student should be ready to respond to any chemical agent emergency.

ACCESSIBILITY:

Initial distribution has been made. For information regarding distribution procedures or for obtaining copies of this and other training products, direct your request to HQ AFCESA/CEOF. Point of contact is Mr. Ralph Gruber, DSN 523-6181, commercial (850) 283-6181, Ralph.Gruber@tyndall.af.mil.

CONTACT:

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