

MMS SUBCOURSE NUMBER

151

EDITION CODE 3



NIKE MISSILE AND TEST EQUIPMENT

NOVEMBER 1970

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U. S. ARMY

**MISSILE AND MUNITIONS
CENTER AND SCHOOL**

REDSTONE ARSENAL, ALABAMA

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GENERAL INFORMATION

This subcourse consists of one or more lessons and an examination. Each of the lessons is divided into two parts; the text and the lesson exercises. For one lesson subcourses the lesson exercises serve as the examination. A heading at the beginning of each lesson gives the title, the hours of credit, and the objectives of the lesson. The final examination consists of questions covering the entire subcourse.

If a change sheet is included, be sure to post the changes before starting the subcourse.

THE TEXT

All the text material required for this subcourse is provided in the packet. The text is the information you must study. Read this very carefully. You may keep the text; however, any unused answer cards and envelopes should be returned.

THE LESSON EXERCISES

Following the text of each lesson are the lesson exercises. After you have studied the text of each lesson, answer the lesson exercises. After you have answered all the questions, go back to the text and check your answers. Remember your answers should be based on what is in the text and not on your own experience or opinions. If there is a conflict, use the text in answering the question.

When you are satisfied with your answers, check them against the answer sheet attached to your exam. Re-study those areas where you have given an incorrect answer by checking the reference given after each answer.

THE EXAMINATION

After you have completed all the lessons and exercises, select the correct answer to all the examination questions. Carefully punch out the correct answer on the exam cards. Be sure to include your social security number, subcourse number, and signature. Final exam cards should be mailed in the envelope provided. The exam will be graded and you will be notified of the results. Your final grade for the subcourse will be the same as your examination grade.

ASSISTANCE

If you require clarification of anything in this subcourse write to us. Also, if you see any information in the text which is incorrect or obsolete, your recommendations will be welcome. Be sure your recommendations are explained in detail, and, if possible, include a reference which gives the correct information. Include your name and social security number. Address all correspondence to:

COMMANDANT
U. S. Army Missile and Munitions Center and School
ATTN: ATSK-CTD-A
Redstone Arsenal, Alabama 35809



**CORRESPONDENCE COURSE
OF THE
U. S. ARMY MISSILE AND MUNITIONS
CENTER AND SCHOOL**

**MMS SUBCOURSE NUMBER 151, NIKE MISSILE AND TEST EQUIPMENT
(16 Credit Hours)**

INTRODUCTION

During World War II it became evident that conventional antiaircraft artillery was not an effective defense against high speed and high altitude enemy aircraft. It was determined that a supersonic, antiaircraft, command guided missile designed to intercept and destroy all types of aircraft, regardless of evasive action, was needed. The first missile units became operational in the United States in 1953 and were deployed around vital industrial and highly populated strategic areas. This first system was Nike Ajax, which was a forerunner to the Nike Hercules and Improved Nike Hercules systems.

The Improved Nike Hercules system, with long range and high altitude capabilities, is the Army's primary air defense weapon for all North America. This subcourse covers the Hercules missile, launcher, and associated equipment and relates to the following MOS's: 22N, 22L, and 23W.

This subcourse consists of six lessons and an examination, organized as follows:

Lesson 1	Introduction to the Nike Hercules Missile and Launching Area	1 hour
Lesson 2	Missile Function	2 hours
Lesson 3	Launching Equipment Function and Maintenance	3 hours
Lesson 4	Missile Test Equipment	2 hours
Lesson 5	Field Maintenance Shops 1, 2, and 3, and Emergency Contact	4 hours
Lesson 6	Hercules Inspection and Maintenance Concepts	2 hours
Examination		2 hours