

## CHAPTER 1

# INTRODUCTION

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### 1-1. Description of Items

The descriptions and unrigged data for the items covered in this manual are provided below.

**Note: All weights given are approximate.**

*a.* The unrigged M102, 105-millimeter howitzer (mounted on an M31 carriage) with an M137E1 cannon tube and roll-over protection structure weighs 3,680 pounds. Its length is 256 inches, reducible to 206 inches. Its height is 68 inches, reducible to 62 inches. Its width is 91 inches with dual wheels and 75 inches with single wheels. The M102 howitzer in Figure 1-1 is equipped with single wheels. The rigging procedures for the howitzer with dual wheels are the same. The howitzers shown in Chapter 2, Section I and Chapter 3, Section II are rigged with 23 boxes of ammunition weighing 2,760 pounds. The howitzers shown in Chapter 2, Section II and Chapter 3, Section III are rigged with 34 boxes of ammunition weighing 4,080 pounds. The howitzer shown in Chapter 3, Section I, is rigged with 17 boxes of ammunition weighing 2,040 pounds. The howitzer shown in Chapter 4, Section I, is rigged with a 1 1/4-ton HMMWV truck as its prime mover and with 30 boxes of ammunition weighing 3,600 pounds. The howitzer shown in Chapter 4, Section II, is rigged with a 1 1/4-ton HMMWV truck as its prime mover and with 32 boxes of ammunition weighing 3,840 pounds.

*b.* The unrigged M119, 105-millimeter howitzer weighs 4,190 pounds. Its length is 240 inches, reducible to 192 inches. Its width is 70 inches. Its height is 94 inches, reducible to 54 inches. The howitzer shown in Chapter 5, Section I is rigged

with 30 boxes of ammunition and 7 boxes of fuzes weighing 3,713 pounds. The howitzer shown in Section II has the same ammunition load and an 81-millimeter mortar weighing 350 pounds. Chapter 6 shows the same two configurations rigged for LAPE airdrop. The howitzers shown in Chapter 7 are rigged with 30 boxes of ammunition, 7 boxes of fuzes, and a 1 1/4-ton HMMWV truck. Two M119 howitzers are shown in Chapter 8 rigged with 82 boxes of ammunition on the same platform, as well as a lighter version of this load and a load which includes two 81-millimeter mortars.

*c.* The unrigged M101A1, 105-millimeter howitzer weighs 5,236 pounds. It is 236 inches long, 84 inches wide, and 62 inches high. Chapter 9 shows this howitzer rigged with 21 boxes of ammunition weighing 2,100 pounds.

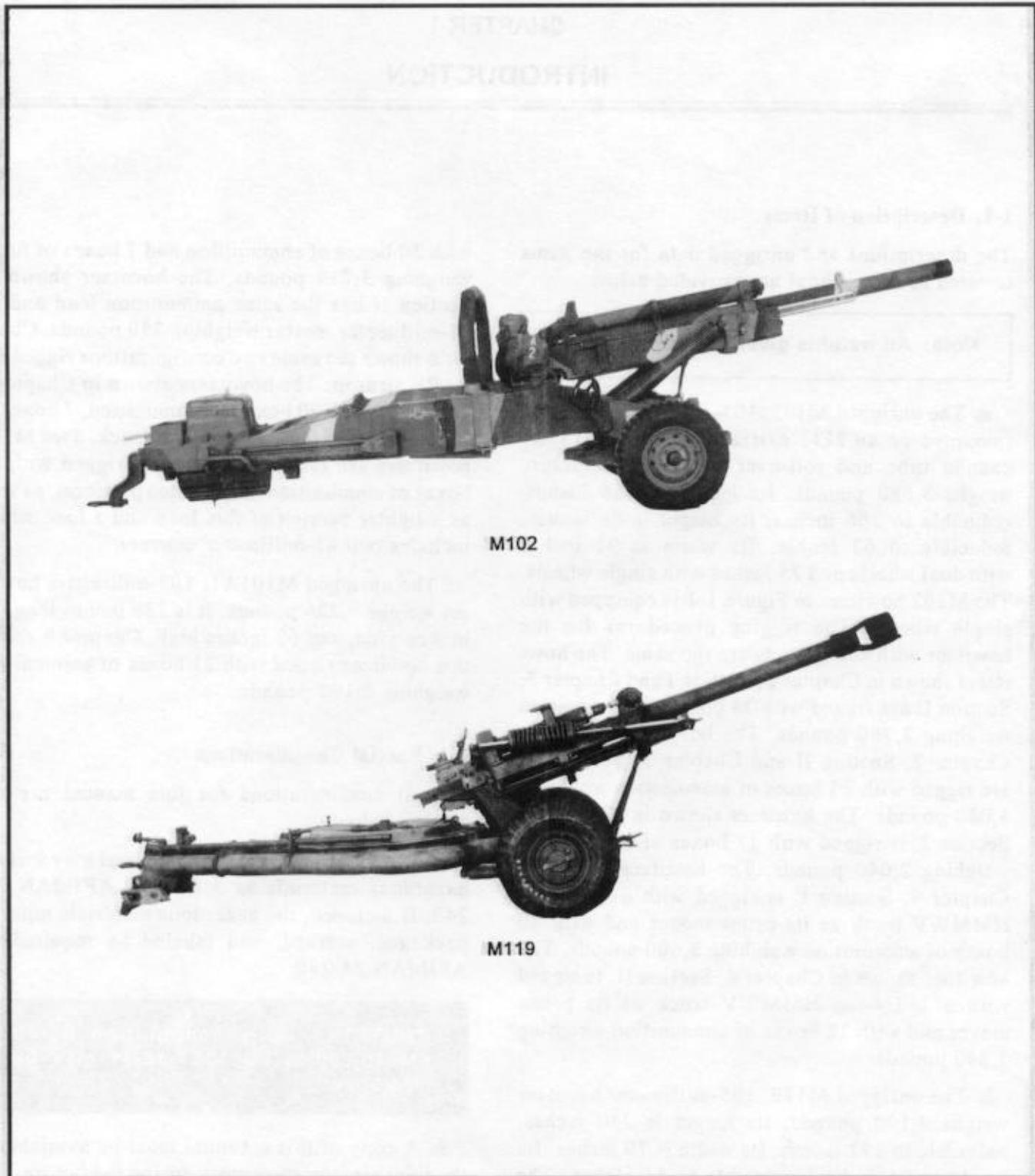
### 1-2. Special Considerations

Special considerations for this manual are described below.

*a.* The loads covered in this manual may include hazardous materials as defined in AFJMAN 24-240. If included, the hazardous materials must be packaged, marked, and labeled as required by AFJMAN 24-240.

**CAUTION: Only ammunition listed FM 10-500-53/TO 13C7-18-41 may be airdropped.**

*b.* A copy of this manual must be available to the joint airdrop inspectors during the before- and after-loading inspections.



M102

M119

*Figure 1-1. M102 and M119, 105-millimeter howitzers*