

INDEX

A

adjustment of fire methods

- aiming point, 5-18 (illus), 6-24
- mil relation, 5-17 (illus), 6-24
- observation, 5-16, 6-23

advanced gunnery

- mounted, 5-45, C-26 thru C-31
- mounted NBC, 5-45, C-26 thru C-31
- predetermined firing, 5-45, C-31 thru C-34
- tracking and leading, 5-42 thru 5-44

aerial defense

- active, F-1
- engagements, F-1, F-2
- passive, F-1
- techniques, F-3

ammunition, 1-17 (illus)

- ballistic data, 1-18 (illus)
- care, 1-19
- classification, 1-17, 1-18
- penetration data, 1-19, 1-20

antiaircraft gunnery, 6-25, 6-26

- position, D-6 (illus)

AN/TVS-5 night sight

- dismounting 5-41
- installing sight to mount, 5-39
- mounting, 5-38
- zeroing, 5-40

application of fire, 6-22, 6-23 (illus)

assembly, general, 2-12

- backplate group, 2-16
- barrel, 2-17
- barrel buffer assembly, 2-13
- barrel buffer body group, 2-13
- barrel buffer group, 2-14
- barrel extension group, 2-14
- bolt, 2-14
- bolt stud, 2-15
- driving spring rod group, 2-16
- function check, 2-17

B-C

beaten zone, 6-3

classes of fire, with respect to –

- ground, 6-3, 6-4 (illus)
- grazing tire

- plunging fire
- gun, 6-6, 6-7 (illus)
- fixed fire
- free gun
- searching fire
- swinging traverse
- traversing fire
- traversing and searching fire
- target, 6-4, 6-5 (illus)
- enfilade
- flanking
- frontal
- oblique

cleaning the weapon, 2-9, 2-10

clearing the weapon, 2-1 (illus)

cone of fire, 6-2, 6-3 (illus)

crews

- duties, 5-23, 5-32
- equipment, 5-23
- exercises, 5-22
- gun placement, 5-26
- inspection, 5-24
- positions, 5-23
- relocating gun, 5-32 thru 5-35 (illus)

cycle of functioning

- cambering, 3-6 (illus)
- cocking 3-11
- ejecting, 3-10
- extracting 3-10
- feeding 3-4 (illus), 3-5 (illus), 3-6 (illus), 3-11
- firing 3-7, 3-8 (illus)
- locking, 3-6, 3-7 (illus)
- unlocking 3-8, 3-9 (illus), 3-10 (illus)

D-E

defilade positions

- full, 6-18
- laying methods, 6-20, 6-21
- partial, 6-18, 6-19

description, 1-5 (illus)

- components, 1-8, 1-9 (illus)
- front sight, 1-7 (illus)
- general data, 1-7
- rear sight, 1-6 (illus)

destruction procedures

ammunition, 4-5
 antiaircraft mount, 4-5
 burning, 4-6
 disposal, 4-6
 gun, 4-5
 spare parts, 4-5
 tripod mount, 4-5

devices, training

M19 BFA, B-1 (illus)
 M3 RABA, B-8 (illus)
 MILES, B-2 thru B-6
 sighting bar, B-6, B-7 (illus)
 SRTA, B-7

disassembly, general

backplate group, 2-4
 barrel buffer assembly, 2-9
 barrel buffer body group, 2-8
 barrel extension group, 2-8
 barrel group, 2-2
 bolt group, 2-7
 bolt stud, 2-6
 driving spring rod assembly, 2-5
 receiver group, 2-7 (illus)

dry fire

range setting and laying, 5-8
 sighting and aiming, 5-6, 5-7
 traversing and elevating, 5-8 thru 5-12

elevation, setting, 5-37

F-I

fighting positions, construction of,

antiaircraft, D-6 (illus)
 three-man, D-1 (illus)
 tripod-mounted, D-2 thru D-5 (illus)

final protective fires, 6-21**fire commands**

elements of initial command
 alert, 5-19
 command to open fire, 5-21
 description, 5-20
 direction, 5-19
 method of fire, 5-21
 range, 5-21

subsequent commands, 5-22

fire control methods, 6-8,6-28**firing exercises**

mounted, C-26 thru C-31
 NBC, C-14 thru C-17
 night-fire, C-17 thru C-20

predetermined, C-31 thru C-34

qualifications, C-21

scorecard, C-22, C-23 (illus)

ten-meter, C-5 thru C-11

transition, C-11 thru C-14

firing positions

antiaircraft, 5-5, 5-6 (illus)

prone, 5-3 (illus)

sitting, 5-3 (illus)

standing, 5-4 (illus)

vehicular, 5-5 (illus)

firing tables

I, C-5, C-6

II, C-13, C-14

III, C-16, C-17

IV, C-20

VI, C-30, C-31

VII, C-33, C-34

headspace, 3-12 thru 3-16 (illus)**inspection, 2-10, 2-11**

L

limited visibility

difficulties, 6-26

fire control, 6-28

NBC considerations, 6-29,6-30

preplanned fires, 6-28

target engagement, 6-27

terminology, 6-26, 6-27

loading procedures, 3-1,3-3 (illus)

automatic mode, 3-2

single-shot mode, 3-2

lubrication, 2-11

M

maintenance, 2-10

NBC conditions, 2-12

procedures, 2-12 (illus)

malfunctions, 4-1**marksmanship training**

advanced, 5-41 thru 5-45

basic, 5-36 thru 5-41

dry fire, 5-6

fundamentals, 5-3 thru 5-36

phases, 5-2

planning, 5-1

remedial, 5-2

sustainment, 5-2

mounts, ground

accessories, 1-12, 1-13, 1-14
 antiaircraft (M63), 1-9, 1-11 (illus)
 tripod (M3), 1-9, 1-10 (illus)

mounts, vehicular

armored vehicle cupola, 1-14, 1-16 (illus)
 gun cradle (MK64), 1-16 (illus)
 pedestal truck (M31C and M24A2),
 1-14, 1-15 (illus)
 truck (M36), 1-14, 1-15 (illus)

N-O

NBC considerations, 6-29

overhead fire

conditions, 6-16
 gunner's rule, 6-16 (illus)
 leader's rule, 6-17 (illus), 6-18
 minimum clearance, 6-15 (illus)
 precautions, 6-18
 safety angles, 6-15
 terrain, 6-16

R

range card preparation, E-1 thru E-3
 (illus)

range determination

estimating by eye, 5-13, 5-14, 5-15
 firing the gun, 5-15

ranges

multipurpose MG transition, C-1,
 C-2 (illus)
 multipurpose range complex C-24,
 C-25 (illus)
 ten-meter layout, C-3 (illus), C-4

range safety, A-1, A-2, A-3

range setting and laying, 5-8

S

scorecard, C-22, C-23 (illus)

qualifications, C-21
 reproducible form, back of manual

sighting and aiming, 5-6, 5-7 (illus)

sight picture, 5-37

stoppages, 4-1, 4-2 (illus)

immediate action, 4-2, 4-3
 remedial action, 4-32, 4-4 (illus)

T

target engagements

area targets, 6-13, 6-14 (illus)
 deep targets, 6-12
 limited visibility, 6-27
 linear targets, 6-9
 linear targets with depth, 6-10
 NBC considerations, 6-29
 point targets, 6-9

test, fundamental skills, 5-36

timing

field expedient methods, 3-18, 3-19
 gauge, 3-12 (illus)
 procedures, 3-16, 3-17, 3-18 (illus)

training

collective, 1-2
 devices, App B
 initial, 1-1, 1-3
 marksmanship, 5-1 thru 5-45
 safety, 7-1, 7-2, App A
 sustainment, 1-2, 1-3, 1-4 (illus), 5-2
 train the trainer, 1-3, 7-1, 7-2, 7-3

training strategy, 1-1, 1-4 (illus)

trajectory, 6-1, 6-2 (illus)

traversing and elevating 5-8 thru 5-12

direction reading, 5-10
 elevation reading, 5-11
 manipulation exercise, 5-11, 5-12
 zeroing 5-10

U-Z

unloading procedures, 3-3

windage, set, 5-37

zeroing/targeting

AN/TVS-5, 5-38, 5-39, 5-40
 field, 5-38
 ten-meter, 5-36