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26

Manuals

1799



*Notified in
A.C.Is. for the
week ending
23rd Nov 1938*

Small Arms Training

Volume I, Pamphlet No. 1

Annual Range Courses
Regular Army

Other than Cavalry Regiment
(Horsed and Mechanized),
Infantry and M.G. Battalions
and The Royal Tank Corps

1938

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1799

*Notified in
A.C.Is. for the
week ending
23rd November,
1938*



Small Arms Training
Volume I, Pamphlet No. 16
Annual Range Courses
Regular Army
Other than Cavalry Regiments
(Horsed and Mechanized),
Infantry and M.G. Battalions
and The Royal Tank Corps
1938

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By Command of the Army Council,

A handwritten signature in black ink, appearing to read "J. G. Greedy". The signature is written in a cursive style with a large, sweeping flourish at the end.

THE WAR OFFICE,

23rd November, 1938.

**AUTHORIZED SCALE OF ISSUE OF SMALL ARMS
TRAINING, VOLUME I, PAMPHLET No. 16,
REGULAR ARMY**

1. The undermentioned scales supersede "Authorized Scales of Issue of Manuals, Regulations, etc., 1933."

2. Offices and establishments, etc., which are not shown in these scales should indent on Army Form L 1394 to the Under-Secretary of State, The War Office (C.2.c.), London, S.W.1.

3. Where more than one copy is issued the distribution within the unit is left to the discretion of the officer commanding the unit.

	Unit	No. of copies
Cavalry—		
Regiments (horsed)	1
" (mechanized)	1
Artillery—		
Regiments	60
Detached batteries	25
Anti-tank regiments	60
Survey batteries	25
H.Q., R.A. fixed defences and fire commands	10
Anti-aircraft regiments	60
Engineers—		
Squadrons and companies	5
Fortress units	5
Railway companies	20
Anti-aircraft battalions	40
Signals—		
" A " Corps signals	40
Mobile divisional signals	40
Divisional signals	40
Anti-aircraft brigade signals	10
Independent artillery signal sections	5
Tank signal sections	5
Egypt signals	40
Command and N.I.D. signal companies	5
Colonial station signal companies	10

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SECTION 1.—GENERAL

1. This pamphlet gives details of the annual range course to be fired by all arms of the Regular Army other than cavalry regiments (horsed and mechanized), infantry and machine gun battalions and the R. Tank Corps.

2. All personnel not "totally exempted" (*see* paragraph 9, below) will fire the L.M.G. and rifle courses, and certain personnel, in addition, will fire the anti-tank rifle and pistol courses.

3. The courses to be fired by the various arms of the service are shown in Table I.

4. The courses are designed on simple lines to refresh a man annually in the weapons with which he is armed, and to make him reasonably proficient in them.

5. **The anti-tank rifle course.**—Three men for each rifle on the war establishment of units so armed will be exercised (*see* Sec. 5).

6. **The pistol course.**—This will be fired only by personnel armed with this weapon (*see* Sec. 6).

7. **C.O.'s pool.**—Ammunition allotted to the C.O.'s pool will be used in accordance with the following priority list:—

- i. For zeroing light machine guns and rifles.
- ii. For giving extra practice to backward shots.
- iii. For demonstrations and occasional shots.
- iv. For regimental weapon training meetings.
- v. For practice for competitions.

Pool ammunition is not an individual allotment. The number of rounds available for each weapon should be calculated at the beginning of the weapon training year and allotted by the C.O. for the various purposes for which he wishes it to be expended.

8. **Dress and equipment.**—The dress and equipment to be worn is laid down in the details of the courses concerned and also in Pamphlet No. 1, 1937, Sec. 3, para. 24.

Troops not normally armed with the bayonet will not fire any practices with the bayonet fixed.

9. Total exemptions :—

- i. The following will be totally exempted from firing courses, provided that, in the case of N.C.Os. and men, they have been once exercised. If, however, they are armed with the pistol, they will fire the pistol course :—

Field officers.
Captains (optional).
Adjutant.
Quarter-master.
Director of Music.
Veterinary officer.
All warrant officers.
All N.C.Os. above the rank of serjeant.
Transport serjeant.
O.R. serjeant.
Serjeant cook.
Serjeant tailor.
Officers' mess serjeant.
Band serjeant.
O.R. clerk.
Farriers (all ranks).
Saddlers (all ranks).
Saddle tree makers.
Pioneers (all ranks).
Soldiers of over 15 years' man's service.
Boys (but *see* Pamphlet No. 1, Sec. 1, para. 6).
Tailors.

- ii. Additional, R.A. units :—

R.A. Band.

- iii. Additional, R.E. units :—

Musicians.

- iv. Additional, R.A.M.C., R.A.V.C. and A.E.C. :—

All N.C.Os. above the rank of corporal.

- v. A battalion or equivalent commander is authorized to allow total exemptions in the case of men attending courses of instruction the duration of which is six months or more, and any vocational training course. Such exemptions will be granted only in cases where attendance at a course of this nature prevents the individual concerned from being present when his unit is firing its annual course and arrangements cannot be made for him to fire as a casual.

TABLE I.—AMMUNITION ALLOTMENT, COURSES TO BE FIRED AND QUALIFYING SCORES TO BE OBTAINED
 ARMS OF THE REGULAR ARMY OTHER THAN CAVALRY REGIMENTS (HORSED AND MECHANIZED), INFANTRY AND MACHINE GUN BATTALIONS AND THE ROYAL TANK CORPS

ARM	CATEGORY	AMMUNITION ALLOTMENT														COURSES TO BE FIRED						QUALIFYING SCORE					
		.22-in.			.303-in. (a)					.55-in. (b)			.38-in. (c)			L.M.G.	Rifle	A.A. (L.M.G.)	A.A. (Rifle)	A.T. Rifle	Pistol	L.M.G.	Empire Test	Rifle	A.T. Rifle	Pistol	
		Empire Test	C.O.'s Pool	Total	L.M.G.	Rifle	A.A.	C.O.'s Pool	Total	Course	C.O.'s Pool	Total	Course	C.O.'s Pool	Total												
Royal Engineers	Recruits	20	50	70	25	25	—	50	100	—	—	—	—	—	—	All	All	—	—	—	—	—	—	40	55	—	—
	Trained soldiers (d)	—	40	40	25	25	8	32	90	25	5	30	38	12	50	All	All	—	All	(b)	(c)	—	—	—	65	—	25
	A.A.L.M. gunners (e) { 1st year 2nd year	—	20	20	—	—	66	99	190	—	—	—	—	—	—	All	—	All	—	—	—	—	—	—	—	—	—
Royal Artillery	Recruits	20	50	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40	—	—	—	—
	Trained soldiers... ..	—	40	40	—	—	—	—	—	25	5	30	38	12	50	—	—	—	—	(b)	(c)	—	—	—	—	—	25
	A.A. Batteries abroad (less A.A.L.M. gunners)	—	20	20	25	25	—	5	55	—	—	—	38	12	50	All	All	—	—	(b)	(c)	—	—	—	65	—	25
	Coast defence units	—	20	20	25	25	—	5	55	—	—	—	38	12	50	All	All	—	—	(b)	(c)	—	—	—	65	—	25
	A.A.L.M. gunners (e) { 1st year 2nd year	—	20	20	—	—	66	99	190	—	—	—	—	—	—	All	—	All	—	—	—	—	—	—	—	—	—
	A.A.L.M. gunners of { 1st year A.A. Batteries (e) { 2nd year	—	20	20	25	—	66	149	215	—	—	—	—	—	—	—	—	All	—	All	—	—	—	—	—	—	—
	Personnel of A.A. { 1st year M.G. batteries (e) { 2nd year	—	20	20	—	—	66	184	250	—	—	—	—	—	—	—	—	All	—	All	—	—	—	—	—	—	—
	—	—	20	20	—	—	66	209	300	—	—	—	—	—	—	—	—	All	—	All	—	—	—	—	—	—	—
R.A.S.C.	Recruits	20	50	70	25	25	—	5	55	—	—	—	—	—	—	All	All	—	—	—	—	—	40	55	—	—	
	Trained soldiers... ..	—	40	40	25	25	—	5	55	25	5	30	38	12	50	All	All	—	—	(b)	(c)	—	—	—	65	—	25
	A.A.L.M. gunners (e) { 1st year 2nd year	—	20	20	—	—	66	99	190	—	—	—	—	—	—	All	—	All	—	—	—	—	—	—	—	—	—
Royal Signals R.A.O.C.	Recruits	20	50	70	25	25	—	5	55	—	—	—	—	—	—	All	All	—	—	—	—	—	40	55	—	—	
	Trained soldiers... ..	—	40	40	25	25	—	5	55	25	5	30	38	12	50	All	All	—	—	(b)	(c)	—	—	—	65	—	25
R.A.P.C.	Trained soldiers abroad	—	20	20	—	—	—	—	—	—	—	—	38	12	50	—	—	—	—	—	(c)	—	—	—	—	—	25
R.A.C.V. A.E.C.	Recruits	20	20	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40	—	—	—	
	Trained soldiers	—	—	—	—	—	—	—	—	—	—	—	38	12	50	—	—	—	—	—	—	—	—	—	—	—	
R.A.M.C. and A.D.C.	Recruits	20	20	40	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	40	—	—	—	
C.M.P. Beachley	All personnel	—	—	—	—	—	—	—	—	—	—	—	38	12	50	—	—	—	—	—	(c)	—	—	—	—	25	
	All permanent staff	—	20	20	25	25	—	30	80	—	—	—	38	12	50	All	All	—	—	—	(c)	—	—	—	65	—	25

(a) This does not include .303-in. tracer ammunition for "hose-pipe" shooting by A.A.L.M. gunners. An allotment of this type of ammunition is published annually in A.C.Is.

(b) The establishment authorized for A.T. rifles on charge will fire this course.

(c) All personnel armed with the pistol will fire this course.

(d) Survey personnel, other than personnel in field survey units, will fire once in three years only.

(e) In addition to the A.A. practices mentioned in Sect. 4, para. 3, A.A.L.M. gunners will fire sleeve practices at A.A. camp, the ammunition for this being provided from the C.O.'s pool. N.C.Os. in charge of A.A.L.M. gunners will also fire.

10. Allotment of ammunition and standards of classification.—The allotment of ammunition and the standards of classification are shown in Table I.

11. 1st year men.—This includes recruits, officers on first appointment to a commission, and enlisted boys entering on man's service.

SECTION 2.—THE L.M.G. COURSE

1. Repetitions.—There will be no repetition by men who fail to reach the required standard. Backward shots may, however, receive further instruction and practice, the necessary ammunition being provided from the C.O.'s pool.

2. Coaching.—Coaching will be permitted for 1st year men only (*see Pamphlet No. 1, 1937, Appendix II*).

L.M.G. COURSE

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
1.	Single rounds	Plain screen with 1-inch black aiming mark	25	30-YARDS RANGE 5	The 5 rounds to be fired singly at the same aiming mark. To test accuracy of aim combined with trigger pressing.	<p><i>Dress</i></p> <p>Recruits.—Drill order, canvas or service dress.</p> <p>Trained soldiers.—Service dress, marching order and respirator in the alert position.</p> <p><i>Notes:</i>—</p> <p>1. Practices 2 and 3 will be fired consecutively by each firer without leaving the firing point.</p> <p>2. At 25 yards sights should be set at the elevation required to hit 1 inch right of the point of aim in the case of the Bren (<i>see</i> Pamphlet No. 1, Appendix 1, Para. 3, ii).</p>
2.	Automatic firing	Plain screen with 1 inch black aiming marks	25	10	To be fired in bursts of 4 or 5 rounds, each at different aiming mark.	
3.	Application	,,	25	10	<p>Object.—To practise holding, aiming and regulating length of bursts.</p> <p>To be fired in 2 bursts at different aiming marks, applying the groups from experience gained in Practice 2.</p>	<p>Scoring.—None, but position and shape of groups will be criticized.</p> <p>Each group will be marked for both grouping and application, the two markings being added</p>

Object.—To teach the application of a burst of fire to the mark.

together to obtain the score for each burst.

Scoring.—

If 4 shots within 2-inch ring, 10 points.

If 4 shots within 3-inch ring, 6 points.

If 4 shots within 4-inch ring, 2 points.

If M.P.I. of burst is—

Within 2 inches of point of aim, 10 points.

Within 3 inches of point of aim, 6 points.

H.P.S. for each burst, 20 points.

Total rounds
Part I

25

SECTION 3.—THE RIFLE COURSE

1. The rifle is the personal protective weapon of the individual. The object of this course is, therefore, to give a man confidence in his weapon to enable him to kill an enemy offering a good target.

2. **Coaching.**—Coaching will be permitted for 1st year men only (*see Pamphlet No. 1, 1937, Appendix II*).

3. **Repetitions.**—There will be no repetition by men who fail to reach the required standard. Backward shots may, however, receive further instruction and practice, the necessary ammunition being provided from the C.O.'s pool.

4. **Miniature rifle.**—The allotment of ammunition is laid down in Table I. Recruits will fire the Empire Test and will be required to obtain the qualifying score laid down. Trained soldiers will fire such preliminary practices as the C.O. may select but will not be required to fire the Empire Test.

5. Firing positions are referred to as (a), (b) and (c) and will be as described below (*see Pamphlet No. 1, 1937, Sec. 3, para. 28*).

(a) **Wrist or forearm supported.**—(Applicable to elementary instructional practices, such as grouping and first application. Sandbags may be adjusted by the coach to suit the firer.)

(b) **In the open.**—(No support whatever in any position.)

(c) **Behind cover.**—The firer will adopt the positions as taught, adapting himself to the cover, firing round it, if of an isolated nature, approaching and using the firing points as continuous cover (*see Pamphlet No. 3, 1937, Lesson 20*). In firing from a trench, the procedure in Lesson 22 will be followed.

MINIATURE RIFLE COURSE

COACHING AT THE FIRING POINT WILL BE CARRIED OUT IN ALL PRACTICES OF THIS TABLE

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
	Preliminary practices	Representative	Representative	See Table I	<p style="text-align: center;">PART I</p> Practices to be arranged.	For details of targets, see S.A.T., Vol. V, 1931, Sec. 47.
A	Grouping	Small	Representative	5	<p style="text-align: center;">PART II EMPIRE TEST</p> Lying (b).	Dress Drill order, canvas or service dress for all miniature range practices.
B	Slow	Small	200	5	Lying (b).	QUALIFYING SCORE—40 points
C	Slow	Large (convertible bull's eye)	200	5	Lying (b).	*If a trench cannot be built or improvised, this practice may be fired lying behind cover with rifle rested.
D	Snapshooting	Small snapshooting	100	5	*Standing in a trench (c). 5 secs. each exposure with 5 secs. interval. The rifle may be in the aim before the target appears.	
			Total rounds	20		

RIFLE COURSE

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
1.	Grouping	Grouping	100	5	<p style="text-align: center;">OPEN RANGE OR ALTERNATIVELY 30-YDS. RANGE</p> <p>Lying (a). Lying (b). Lying (a). Lying (a), but the firer will be standing at the "Order" until the target appears or the order to fire is given. Rifle unloaded; ammunition in the pouch, which will be buttoned; safety catch back and sights adjusted. Time 60 seconds.</p>	<p>When fired on the 30-yds. range, the practices will be the same as on the open range, except that representative targets will be used. Where facilities do not exist for raising and lowering the targets, Practices 4 and 5 may be carried out by word of command with the targets exposed.</p>
2.	Grouping	Grouping	100	5		
3.	Slow	Small	200*	5		
4.	Timed	Small	200	5		
5.	Snapshooting	Small	200	5	<p>Lying (b). Rifle loaded, sights adjusted and safety catch forward. Butt and nose cap to be touching the ground before each exposure. Exposure, 6 secs. for each shot.</p>	<p>*Trained soldiers will fire this practice wearing respirators.</p>
			Total rounds	25		

SECTION 4.—THE ANTI-AIRCRAFT COURSE

(Rifle and L.M.G.)

1. This course is designed to exercise riflemen and light machine gunners in applying the principles contained in Pamphlet No. 6. Full application of these principles is, however, restricted by the necessity for observing safety precautions.

2. All personnel, other than those totally exempt, will fire the practices of this course as laid down in Table I. There will be no classification.

3. A.A.L.M. gunners will fire the L.M.G. practices of the course twice, the second time wearing respirators. The remaining ammunition allotted for the A.A. course may be utilized for further training at the discretion of C.Os.

4. The necessary ammunition for Practice 5 will be taken from the C.O.'s pool.

ANTI-AIRCRAFT COURSE

No.	Practice	Target	Distance in yards	Rds.	Remarks
1.	A.A. rapid fire (Rifleman)	A.A. attacker	10	5 (per man)	<p>Fired by a group of 3 firers. Instructor orders "Standing"—"Charge magazines"—"500"—"Aircraft action". Instructor indicates target, then orders "Aircraft front"—"Rapid fire". After 2 or 3 rounds instructor orders "Stop" and then indicates another target. Orders "Aircraft front"—"Rapid fire"—"Stop"—"Unload". Time limit for each series of shots will be 10 seconds, taken from the order "Fire" in each case.</p> <p>At the conclusion of each group's firing, instructor will criticize results.</p> <p>With grouping ring on centre of target all shots should be inside the 12-inch circle. Those within the 4-inch circle may be considered effective. (No scoring.)</p> <p>Fired by a group of 3 firers. Instructor orders "Standing"—"Charge magazines"—"500"—"Aircraft action"—"Aircraft front"—"Rapid fire". The last command will be given as the target starts to move, the signal for which will be given by the instructor. The men will fire <i>one</i> round at each run, reloading in the shoulder. 3 runs, each of 3 seconds. The target will be criticized at the conclusion of each practice.</p> <p><i>Note.</i>—On the command "Aircraft front", each firer will direct his rifle on the 12 degrees lead and swing along the line of flight as the target moves. (No scoring.)</p> <p>Firer standing behind L.M.G. mounted on tripod. Instructor orders "Load"—"500"—"Aircraft action" and indicates target; then "Aircraft front"—"Rapid fire". Firer fires one long burst. Time limit, 5 seconds from order "Rapid fire". Group will be criticized on conclusion of practice. With centre of grouping ring on centre of target (or, in case of Bren, 1 inch right of centre of target) all shots should be within an 8-inch circle. (No scoring.)</p>
3.	A.A. (L.M.G.)	A.A. attacker	10	8	

4. A.A.(L.M.G.) A.A. crossing
 10
 14
 Firer with 7 rounds in each of 2 magazines. Instructor orders "Load"—"500"—"Aircraft action"—"Aircraft front"—"Rapid fire". Last command to be given as target starts to move. Man fires a long burst at each of 2 runs. Time for each run, 3 seconds. The target will be criticized after *each magazine* has been fired.

Note.—On the command "Aircraft front", the firer will direct his gun on the 12 degrees lead and swing along the line of flight as the target moves, the signal for which will be given by the instructor simultaneously with the order "Rapid fire". (No scoring.)

Total rounds	30
--------------	----

2ND AND SUBSEQUENT YEAR MEN ONLY (A.A. L.M. GUNNERS)

5. Hosepipe (To be fired where facilities exist) or Balloons towed drogue targets
 10
 14
 2 magazines per man for all H.Q., A.A., L.M. gunners (60 rds.)
 When a range has been established and passed in accordance with the regulations as suitable for A.A. firing with .303-in., good practice in observing the stream of tracer ammunition can be given by firing at hydrogen-filled balloons. The direction of the wind must be ascertained before firing begins, and balloons released so as to give suitable crossing targets. The limits of the permissible arcs of fire must be clearly marked and an officer detailed to each gun to stop firing when the target passes the limit.
 Tracer ammunition, for this purpose, in the proportion of 50 : 50, will be used.

This practice can be fired at towed drogues if the necessary arrangements can be made with the R.A.F. for towing.

SECTION 5.—THE ANTI-TANK RIFLE COURSE (PROVISIONAL)

(See Pamphlet No. 5, 1937, General, para. 5.)

1. The course is designed to give practice in firing at :—
 - i. Crossing targets.
 - ii. Fleeting (snapshooting) targets.

2. On account of the high penetrative powers and the great range of the anti-tank rifle, safety considerations on many range areas prohibit fire with .55 ammunition. Part I of the course is, therefore, designed to overcome this difficulty. The size of the target, its speed, and the range, are reduced to $\frac{1}{2}$ those of the normal.

Part I is also intended to enable men to practise aiming and swinging under the simplest conditions before they fire .55-in. ammunition for the first time.

3. Part II will then be fired with .55-in. ammunition on an anti-tank rifle range. In stations at or near which anti-tank rifle ranges do not exist and where arrangements cannot be made for men to proceed to an anti-tank range to practise, men will fire up to 5 rounds of .55-in. ammunition, at 25 yards, into the stop butt of a classification range, to accustom them to the effect of such firing.

.55-in. ammunition will never be fired on a 30-yards range unless it has been passed for this purpose.

4. On anti-tank rifle ranges where targets are placed in the open, the following system of signalling will be employed :—

The target will be so placed that men in a pit to a flank can see the shot-holes. At the firing point there should be a replica target (6 inches square) which can be made under unit arrangements. Both targets are divided into 1-foot squares (see Fig. 1). These squares will be numbered from left to right, and from bottom to top. Thus, on the arrival of a shot on the target, the markers in the pit notify the firing point by telephone of its position by indicating, on the lines of an ordinary map reference, the square in which the shot-hole lies. If, therefore, a shot arrives on the target at " X " (see Fig. 1), the marker merely telephones " Square 34 ". The position of the shot is then plotted on the target at the firing-point.

5. The ultimate aim must be to train all men in firing the anti-tank rifle. For the immediate future, units will train not less than three men for each anti-tank rifle on their establish-

ment. The best .303-inch rifle shots should be selected. Practice in aiming off and swing can be obtained by using the normal traffic passing along roads in the vicinity of barracks as aiming marks.

THE 6-FT. HEAD-ON TANK TARGET

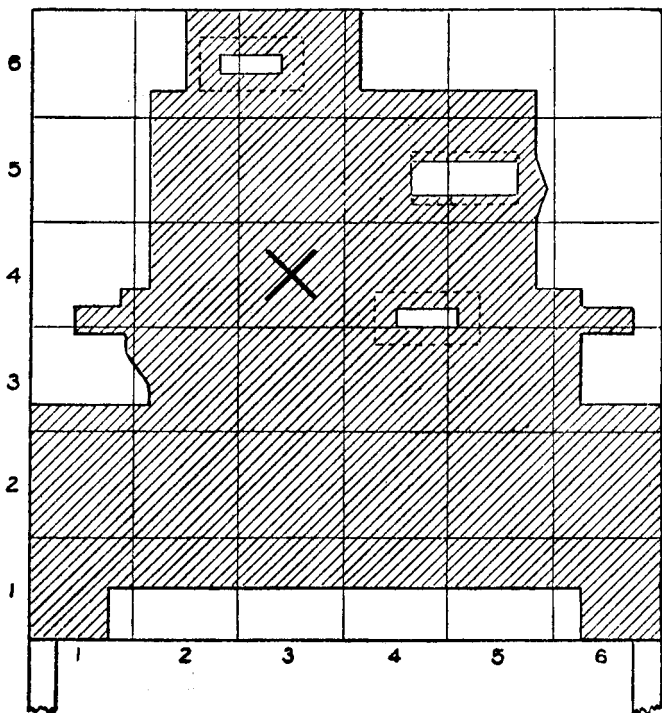


Fig. 1

6. Instructions for anti-tank rifle 1/5th scale shooting with .22 ammunition.

Procedure

(A) At the firing point

(1) Select a firing point opposite the centre of the target run, ascertain its distance from the latter and note which line in the Range Table applies.

(2) Ascertain that two posts are erected 62 feet apart alongside the target run, which may be any convenient greater length.

(3) Zero the .22 rifle at a stationary target at the range to be used so that shots hit a point aimed at with the anti-tank rifle sights.

Note.—At 100 yards a 4-inch group should be obtained.

The zeroing of the .22 rifle should be checked periodically during firing, especially if a constant error appears.

(4) Instruct firers to use the left-hand target for movement left to right, the right-hand target for movement right to left, and to take always the standard lead irrespective of the target speed.

(5) During each run of the target, time the latter over the 62 feet between the posts in seconds, refer to the appropriate line and column in the Range Table, read off the distance in inches which the shots should be in front of or behind the centre of the target, and telephone this to the butts.

Note.—An ordinary watch with the second hand is sufficiently accurate for timing if a stop-watch is not available.

(B) In the butts

* (6) Hang two targets on the screen, one at each end, and wedge them so that they do not move.

* (7) After each double run, on receiving from the firing point the position of the correct shot with reference to the centre of the target, apply the scoring template to the screen with its centre in this position. The bar of the template is graduated in inches for this purpose. Note the position of each shot in relation to the template and signal this to the firing point, either by telephone using the clock ray method, or by displaying a target with spotting discs on it.

(C) At the firing point

(8) Mark the position of each shot on a duplicate target at the firing point and criticize.

* On ranges used only by the A.T. rifle the two targets may be pasted on the screen and the latter provided with a series of holes along the top numbered to show inches from the centre of each target. In this case the template should be hung from the appropriate hole by a hook, so arranged that, when it is in hole 0, the template coincides with the target (*see* Fig. 3).

Example.—Range 80 yards.

Time of run left to right—7 seconds.

Time of run right to left—12 seconds.

One shot fired at each run.

Firing point to butts.—“ Left target—4 inches in front.

Right target—17 inches in front.”

(BUTT CHECKS.)

Butt to firing point.—“ Left target—Miss, left, 8 o'clock,
20 inches.

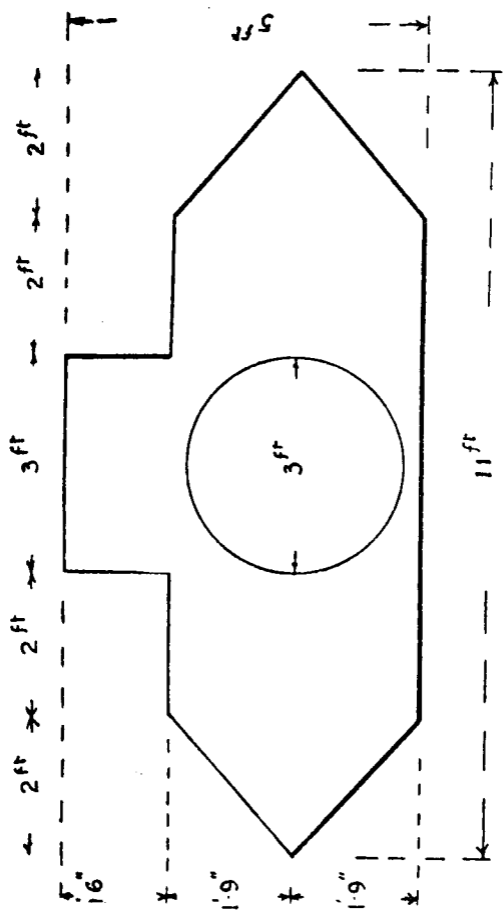
Right target—Hit, right, 3 o'clock,
4 inches.”

ANTI-TANK RIFLE 1/5 SCALE RANGE TABLE (.22 Ammunition)

Time of travel of target over 62 feet in seconds...	16	15	14	13	12	11	10	9	8	7	6
	2½		3		3½		4	4½	5	6	7
Actual speed of target in m.p.h.											
Actual range in yds.											
60	25	25	24	23	22	21	19	17	15	12	8
70	24	23	22	21	20	18	16	14	11	8	3
80	22	21	20	19	17	15	13	11	8	4	-2
90	20	19	18	16	15	13	11	8	4	0	-6
100	18	17	16	14	12	10	8	5	1	-4	-11

Distance in inches which shots should be in front of centre of target.
 Note: -- = behind.

A.T. RIFLE DIRECT CROSSER TANK TARGET
(SILHOUETTE LIGHT TANK)



COLOUR OF PAPER :—
 FOR CLASSIFICATION—BLACK
 ,, FIELD FIRING—MOTLEY

Fig. 2

ANTI-TANK RIFLE COURSE (PROVISIONAL)

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
PART I.—$\frac{1}{2}$th scale with .22-in. ammunition						
1.	Preliminary	Crossing (representative tank)	100	6	3 rounds each direction.	
†2.	Direct crossing	,,	100	6	,,	Scoring. —Each hit in circle, 2 points. Rest of scoring area, 1 point. H.P.S. 12 points.
			Total rounds	12	,,	
PART II.—A.T. range with .55-in. ammunition. (Suggested Course where practicable.)						
3.	Sighting	Head-on tank target, 6-ft. stationary.	300	3	The position of each hit will be shown on a duplicate target at the firing point (see Sec. 5, para. 4).	†These practices are Classification.
†4.	Snapshooting	Silhouette light tank	300-500	5	Targets, operated from pits by cord and pulley, to be exposed at various places within area allotted for 5 exposures of 6 seconds each. 10 seconds between exposures.	Scoring. —Each hit in circle, 2 points. Rest of target, 1 point. H.P.S. 10 points.

PART II.—A.T. range with .55-in. ammunition. (Suggested course where practicable.)—continued

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
†5.	Direct crossing	Silhouette light tank	300	6	3 rounds each direction (target on trolley).	Scoring.—As above. H.P.S. 12 points.
†6.	” ”	”	500	6	3 rounds each direction (target on trolley).	Scoring.—As above. H.P.S. 12 points.
†7.	Diagonal crossing	Box light tank	500-200	5	One undulating run in each direction. 5 rounds to be fired while target is moving. 3 rounds as it approaches the firer and 2 on the return run.	Scoring.—Each hit on tank, 2 points. H.P.S. 10 points. H.P.S. for course, 56
				Total rounds	25	

CLASSIFICATION
 Marksman }
 Qualified, } To be notified
 Failed, under } later.

NOTE.—In all moving target practices the target should be towed at a speed of 20-25 m.p.h.

SECTION 6.—THE PISTOL COURSE

General

1. The course is designed to practise individuals in delivering fire instantly by sense of direction. The speed at which one or more effective shots can be fired is more important than the close grouping of the shots.

2. To obtain full value from this course, a period of about one week should be devoted to preliminary practice in holding and snapping with an empty pistol before firing with live ammunition.

Range discipline and safety precautions

3. See Pamphlet No. 1, 1937, Sec. 3, and Pamphlet, No. 11, 1937, Lesson 1.

Grouping practices

4. If faults are revealed in the first grouping practice, the second one will not be fired until these faults have been corrected by further instruction. Before men are allowed to shoot by sense of direction only, their individual ability in trigger pressing and holding must be ascertained. For this reason sights will be used in firing the grouping practices.

Misfires and jams

5. See Pamphlet No. 1, 1937, Sec. 3, para. 27.

PISTOL COURSE

Part I.—PRELIMINARY (using sights)

No.	Practice	Detail	No. of rounds	Range, yards	Target	H.P.S.	Remarks
1.	Grouping	Single action. Using sights. Firer to return to "Ready" position after each shot.	4 either hand	10	4-ft. with two 2-in. aiming marks.	No score— Faults to be carefully noted	i. Target for Practices 1 and 2 is shown in Vol. V, 1931, Plate 109, page 216. ii. Scoring : 4 shots within 8 × 4-in. rectangle = points. 4 shots within 12 × 8-in. rectangle = 16 points. 4 shots within 16 × 12-in. rectangle = 12 points.
2.	"	"	4 either hand	10	"	H.P.S. 20. Standard required, 12	
		Total Part I	8 rds.				

Note.—The pistol grouping rectangle (Vol. V, 1931, Plate 116) will be applied, the centre to the bottom of the aiming mark.

Part II.—INSTRUCTIONAL (without using sights)

3.	Application	Single action, without use of sights. Firer to return to "Ready" position after each shot. Time 1 sec. per shot. No standard interval between shots.	3 either hand	10	1 Fig. 2	15	i. Fig. targets 2 and 3 will be marked with a rectangle as shown in Vol. V, Plates 111 and 112A. ii. Practice 6: Two Fig. 2 targets on sledge (Vol. V, Plate 110) capable of movement. Two Fig. 3 targets. On the command "Fire", one
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of the two Fig. 2 targets (as indicated by the conducting officer) will charge. The firer will first fire at the charging target, then advance 5 yds. and fire at the remaining three. Where several firers are firing in one detail, the conducting officer will ensure, as far as possible, that all firers advance together.

iii. Scoring.—*Practices 3 to 11*: Each shot within 16 × 12-in. rectangle = 5 points. Each shot on remainder of target = 3 points.

4.	Application	Double action. 3 secs. for 3 shots.	3 either hand	10	1 Fig. 2	15
5.	"	Single or double action. 1 shot at each target. Time, 6 secs. for practice.	4 either hand	10	4 Figs. 2	20
6.	Attack	Single or double action. Firer advancing 5 yds. Time, 6 secs.	4 either hand	20 to 15	2 Figs. 2 (one charging) 2 Figs. 3	20
7.	Defence	Single or double action. Drawing loaded pistol from case. Time, 4 secs.	2 either hand	15 to 5	2 Figs. 2, both charging	10
8.	Surprise and disappearing (gas)	Single and double action. For each exposure 2 rounds to be fired, the first by single action. Time for each exposure, 2 secs. Respirators will be worn.	4 either hand	10	Fig. 2 to be exposed and moved with- in a front- age of 3 yds. 2 shots to be fired during each run of the target.	20
			Total Part II			20 rds.

Part III.—QUALIFICATION (without using sights)

No.	Practice	Detail	No. of rounds	Range, yards	Target	H.P.S.	Remarks
9.	Attack	Single or double action. Firer advancing 5 yds. Time, 5 secs.	4 either hand	15 to 10	2 Figs. 2 (one charging); 2 Figs. 3	20	Scoring and method of conducting as for Practice 6, Part II.
10.	Defence	Single or double action. Drawing loaded pistol from case. Time for practice, 4 secs.	2 either hand	15 to 10	2 Figs. 2, both charging.	10	
11.	Surprise and disappearing (gas)	Single and double action. 2 secs. for each exposure in which 2 shots will be fired. First shot to be fired by single action, firer to return to "Ready" position after each exposure. Interval of 2 secs. between each exposure. Respirators will be worn.	4 either hand	10	1 Fig. 2. Each exposure will be at a different point on a front of 3 yards.	20	
			Total Part III				10 rds.

QUALIFYING STANDARD,
PART III
H.P.S. 50
Qualified : 25 and over.
Failed : under 25.

Total ammunition, Parts I, II and III = 38 rounds.

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