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# **Small Arms Training**

**Volume I, Pamphlet No. 14**

## **Annual Courses— Regular Army**

**Cavalry Regiments (Horsed) and  
Infantry (Rifle) Battalions**

**1938**

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LONDON



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Infantry (Rifle) Battalions

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LONDON

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*By Command of the Army Council,*

A handwritten signature in black ink, appearing to read 'H. G. Creedy'. The signature is written in a cursive style with a large initial 'H' and a long, sweeping tail that ends in a hook-like shape. There are three dots below the signature, possibly indicating a full name or a specific rank.

THE WAR OFFICE,  
31st January, 1938.

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## SECTION 1.—GENERAL

1. This pamphlet gives details of the annual range courses for the following :—

Rifle (miniature and open range).

Light machine gun.

Anti-aircraft.

Field firing.

Anti-tank rifle.

Pistol.

Annual mortar practice.

Each course is divided into parts to suit the various categories of those firing them. They will be fired by :—

Cavalry regiments (horsed)—(Household Cavalry and Cavalry of the Line).

Infantry (rifle) battalions (Footguards and Infantry of the Line).

2. All personnel not "totally exempted" (*see* para. 7) will fire according to their category, and certain personnel in addition will fire the anti-tank rifle, pistol and mortar courses.

3. The courses are designed to provide progressive training for the soldier, and to make him a practical service shot. After he has been exercised at easy targets, he will be advanced to practices resembling, as far as possible, active service conditions.

4. i. The parts of courses to be fired by various categories are shown in Table I.

ii. **Personnel on the staff of infantry depots (rifle)** will fire :—

(a) Rifle, Parts II and III.

(b) L.M.G., Part I.

iii. **The pistol course** will only be fired by personnel armed with the pistol. Infantry will not fire Part IV.

iv. **The anti-tank rifle course** (*see* Sec. 7). Three men for each anti-tank rifle on the war establishment of all units will be exercised. Men selected for training should further :—

(1) Be those who are likely to be available on mobilization to handle anti-tank rifles.

- (2) Have at least 12 months' service.
- (3) If 2nd year men, be marksmen or 1st class shots.
- (4) If 3rd or subsequent year men, be marksmen or good service shots.

In order to start building up an immediate reserve, efforts should be made to train up to six men a rifle. Extra men should carry out preliminary training, and  $\frac{1}{5}$ -scale shooting even if .55-in. shooting is impracticable.

v. **Annual mortar practice.**—*See* Sec. 8.

vi. **Grenades.**—An annual allotment of H.E., smoke and signal grenades is made to each infantry battalion (rifle) and to each infantry depot (rifle) for training and demonstration purposes. (For details of range organization, safety precautions, etc., *see* Pamphlet No. 13, Sec. 4.)

5. **C.O.'s pools.**—Ammunition allotted to the C.O.'s .303-in. and .38-in. pools will be used in accordance with the following priority list :—

- i. For zeroing rifles and light machine guns.
- ii. For giving extra practice to backward shots and for their subsequent repetition.
- iii. For the fixed line L.M.G. practice.
- iv. For field firing—additional to the 20 rounds .303-in. allotted for each man.
- v. For demonstrations and occasional shots.
- vi. For regimental rifle meetings.
- vii. 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.

6. **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, Sec. 3, para. 24.

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

7. **Total exemptions :—**

- i. The following will be totally exempted from firing the courses provided that, in the case of N.C.Os. and men, they have been once exercised as 3rd year men



in the 1938 course, except that, if 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.

Pipe-major.

Bugle-major.

Drum-major.

Transport serjeant.

O.R. serjeant and corporal of horse.

Serjeant cook and corporal of horse.

Serjeant tailor and corporal of horse.

Officer's mess serjeant and corporal of horse.

Band serjeant and corporal of horse.

O.R. clerk.

Farriers (all ranks).

Saddlers (all ranks).

Saddle tree makers.

Pioneers (all ranks).

Soldiers of over 18 years' man's service.

Boys (but *see* Pamphlet No. 1, Sec. 1, para. 6).

Tailors.

ii. Additional to Household Cavalry and Foot Guards :—

Bandsmen.

Musicians.

iii. A brigade 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.

**8. Allotment of ammunition and standards of classification.**—The allotment of ammunition and the standards of classification are shown in Tables II and III, respectively.

Owing to the peculiarities of certain ranges, it may be necessary to modify the standard "lay-out", and the detail of

practices accordingly, for Parts VII and VIII of the rifle course and for Part IV of the L.M.G. course.

The qualifying scores given in Table III are intended for a standard range with normal scoring.

Where a range, owing to the configuration of the ground, does not conform to the standard lay-out, the classification of 3rd and subsequent year men should be based on 60 per cent. of the H.P.S. for marksmen and 35 per cent. of the H.P.S. for service shots.

TABLE I

[Facing p. 8.]

## PRACTICES TO BE FIRED BY PERSONNEL OF CAVALRY REGIMENTS (HORSED) AND INFANTRY (RIFLE) BATTALIONS

Category	Min. Rifle (.22)			Rifle (.303-in.)								L.M.G. (.303-in.)				A.A. (.303-in.)	Pistol (.38-in.)				A/T Rifle (.55-in.)	Mortar	Field firing	
	Preliminary	Part II (a)	Part II (b)	Part I	Part II	Part III	Part IV	Part V	Part VI	Part VII	Part VIII	Part I	Part II	Part III	Part IV		Part I	Part II	Part III	Part IV				
1st year men ...	All	All	All (a)	All	All	All	All	All	All	—	—	All	All	All	—	All	—	—	—	—	—	—		All
2nd year men ...								All	All	All	—			All		All	All (b)	All (b)	All (b)	All (b) (c)	All (e)			All
3rd and subsequent year men										All	All				All	All	All (b)	All (b)	All (b)	All (b) (c)	All (e)			All
Personnel of H.Q. Wing (less A.A. L.M.G. troop or platoon)	All rifle (ground and A.A.) practices according to year of service.																							
Personnel of the A.A. L.M.G. troop or platoon	All L.M.G. practices (ground and A.A.) according to their year of service. They will also fire all rifle practices (ground and A.A.) until they have once completed the 2nd year men's course.																							
Establishment at Infantry Depots					All	All						All					All (b)	All (b)	All (b)					
Wholly exempt (d)																	All (b)	All (b)	All (b)	All (b) (c)				

For details of annual mortar practice, see Sec. 7.

## Notes.

- (a) Repetition, if necessary.  
 (b) Only if armed with pistol.  
 (c) Personnel of horsed cavalry regiments only, provided that they qualify in Part III.  
 (d) But allotted ammunition for C.O.'s pool.  
 (e) Up to six men for each anti-tank rifle on establishment.

TABLE II.—ALLOTMENT OF AMMUNITION

[Facing p. 8.]

## CAVALRY REGIMENTS (HORSED) AND INFANTRY (RIFLE) BATTALIONS

Personnel for whom ammunition is allowed	.22-in.	.303-in.			.38-in. (c)			.55-in. (f)			Mortar
		For Courses	For C.O.'s Pool	Total	For Courses	For C.O.'s Pool	Total	For Courses	For C.O.'s Pool	Total	
1st year men.											Bulk allotment of ammunition will be notified annually by the War Office.  For details of annual mortar practice, see Sec. 7.
(a) { At depot ...	130 (g)	100	25	125	—	—	—	—	—	—	
{ With unit ...	—	295 (b) (e)	60	355	—	—	—	—	—	—	
2nd year men ...	30	270 (b) (e)	60	330	38	18	56	25	5	30	
3rd and subsequent year men... ..	30	(b) (d) 233 (e)	60	293	38	18	56	25	5	30	
Personnel of H.Q. Wing (less A.A. L.M.G. troop or platoon)	30	According to year of service (see Table I).			38	18	56	—	—	—	
A.A. L.M.G. troop or platoon	30	See Table I.			38	18	56	—	—	—	
Est. at regtl. depots	30	85	60	145	38	18	56	—	—	—	
Wholly exempt ...	30	—	60	60	38	18	56	—	—	—	

## Notes.

(a) For cavalry this is all drawn "With Unit".

(b) The minimum of 30 rounds for each Bren tripod on the war establishment which must be earmarked for the fixed line L.M.G. practice will be taken from the C.O.'s pool.

(c) Can only be claimed for personnel armed with the pistol. Personnel of cavalry regiments (horsed) who qualify in Part III are entitled to an additional 18 rounds of .38-in. ammunition, plus 18 rounds of blank .38-in. ammunition for Part IV.

(d) 25 rounds are allotted for every 3rd or subsequent year man for purposes of zeroing\* and sighting rifles on the open range before battle shooting is begun.

(e) Includes ammunition allotted on a basis of 20 rounds for each man for field firing.

(f) Can only be claimed for personnel who fire the anti-tank rifle.

(g) Where the recruit normally remains for 18 weeks, 100 per cent. will be drawn at the depot. At the Guards Depot, the full 130 rounds will be drawn for each recruit who fires the miniature range course. In depots of rifle units where the recruit normally remains at the depot for less than 18 weeks, 60 per cent. will be drawn at the depot and 40 per cent. on his joining his battalion.

## SECTION 2.—THE RIFLE COURSE

1. It is considered that modern conditions on the battle-field will only provide for the rifleman indefinite and fleeting targets at ranges within 600 yards. Accuracy will be more than ever essential. Training is, therefore, designed to make the rifleman :—

- i. A steady and accurate service shot.
- ii. A quick shot, so that he can take one or more snapshots at targets which only appear at short and indefinite intervals.
- iii. Handy with his rifle, so that he can produce for short periods bursts of rapid fire of 5 to 10 rounds, as necessary.

The main object of the course is to train the soldier on the above lines in progressive stages.

### 1st Year Men

2. i. 1st year men will normally fire the miniature rifle course complete, the rifle course, Parts I, II and III, at the depot\* and the remainder with the unit.
- ii. The term "1st year men" includes recruits, and officers on first commission. Such officers, if not at the depot, and boys entering upon their man's service, will fire with the unit those parts of the course which should normally be fired at the depot.\*
- iii. Should no 30-yards or open range be available at the depot, Parts I, II and III will be fired after the recruit joins his unit. Whenever possible all practices of Parts II and III will be fired on an open range.
- iv. A 1st year man will not normally fire the 2nd year man's course during the same weapon training year as that in which he began to fire his 1st year man's course. 1st year men, however, will normally complete the course by firing Parts IV, V and VI as soon as possible after joining their units from the depot.

---

\* In the case of Household Cavalry and Cavalry of the Line (horsed), with the regiment.

A 1st year man, however, who completes his course early in the weapon training year will, after a suitable interval of time during that year, also fire the course prescribed for the 2nd year man.

### 2nd Year Men

3. The soldier, in his 2nd year, is given ample opportunity to refresh himself at targets having a definite aiming mark. He is then classified on easy targets (Part VI) and later exercised in battle shooting.

### 3rd and Subsequent Year Men

4. These are allotted 25 rounds each to enable them to sight their rifles at targets with definite aiming marks. C.Os. will decide at what distances this firing will be done. As the entire course for 3rd and subsequent year men is battle shooting, it is important that this sighting should be conscientiously carried out.

### Repetitions

5. i. 1st year men who repeat practices of the miniature rifle course, or of Part III of the rifle course, will be shown in annual weapon training returns according to their revised classification, and the numbers affected will be stated.
- ii. 1st year men who classify as 3rd class shots will, after a suitable interval and further preliminary training, repeat Part VI once only, and will be classified on the score thus obtained. They will be shown in the unit weapon training return according to the revised classification, and the number of soldiers affected will be stated.
- iii. A 2nd year man who classifies as a 3rd class shot, after receiving further instruction, may, at the discretion of his commanding officer be repeated in certain practices or in the whole of Parts VI and VII. He will *not* be reclassified in that year but his commanding officer may decide whether he is to fire Part VIII in his 3rd year or would benefit by repeating Parts VI and VII instead.
- iv. Men who fail in 3rd and subsequent years will receive further instruction and repeat Part VIII once only, but they will *not* be reclassified.
- v. .303-in. ammunition for repetition will be provided from the C.O.'s pool.

## Coaching

6. See Pamphlet No. 1, Sec. 3, para. 4, and Appendix II.

### Organization for Firing the Rifle Course

7. i. The following suggestions are offered as a guide only. Experience shows that time may be saved by :—

(a) Firing men by categories.

(b) Conducting those practices of the battle shooting parts of the course which are fired in lanes under centrally controlled regimental or battalion arrangements. This facilitates the provision of the additional personnel needed for the running of these practices.

Thus the system of firing with the unit would be :—

	Part IV	Part V	Part VI	Part VII, Prac- tices 34-37	Part VII, Prac- tices 38-39	Part VIII
1st year men	Coy.	Coy.	Coy.	—	—	—
2nd year men	—	Coy.	Coy.	Coy.	Bn.	—
3rd and sub- sequent year men ...	—	—	—	Coy.	Bn.	Bn.

Where this system of firing is adopted, it must be clearly understood that squadron or company commanders are not thereby absolved from their responsibility for the weapon training efficiency of their command.

ii. In the battle shooting parts of the course the range is divided into a firing area (from the 600 to the 300 yards firing points) and a target area (from the 300 yards firing point to and including the butts). The range is further divided into as many parallel lanes as space will allow, each lane being 12 yards wide (i.e. three target frames on a standard range). Targets may appear anywhere in each lane within the target area. For purposes of safety, lanes are marked on the ground by black and white posts and are numbered from left to right. When men are firing in lanes, conducting officers

will ensure that each firer and his targets are confined to one lane. Certain practices combine fire and movement, while in others the firers remain stationary. Practices 38 and 39 of Part VII and the whole of Part VIII will be fired in lanes. For all other practices the full target accommodation of the range will be used.

The essence of battle shooting is to practise firers in thinking for themselves. Apart from the initial order to load, no further orders will be given, except the number of rounds to be fired at each target or series of targets. Conducting officers should use ingenuity in varying the order in which targets appear for various details, provided that they do not make conditions appreciably more difficult for one detail than for another.

- iii. Figure targets, when exposed from the butts, will appear so that the scoring surface only is seen by the firer, and not the supporting pole.
- iv. During the battle shooting practices of the rifle course, conducting officers on the firing point, in the butts and at the control post may find it of assistance to have with them brief instructions on the general lines indicated in the Appendix. These instructions should be framed to suit the particular range and to allow for variations in the positions and in the order of appearance of the various targets.



## RIFLE COURSE

Throughout the course firing positions are referred to as (a), (b) and (c) and will be as described below (*see* Pamphlet No. 1, 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, Lesson 20. In firing from a trench, the procedure in Lesson 22 will be followed.

# MINIATURE RIFLE COURSE

(Fired at Depot)

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	60	PART I Practices to be arranged by Depot Commander.	For details of targets, see S.A.T., Vol. V, 1931, Sec. 47.
A	Grouping	Small	Representative 200	5	PART II (A) EMPIRE TEST Lying (b).	<b>DRESS</b> Drill order, canvas or service dress for all miniature range practices.
B	Slow	Small	" 200	5	Lying (b).	AVERAGE SCORES (as a guide only)
C	Slow	Large	" 500	5	Lying (b).	1st Class 20
D	Snapshotting	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.	1st Class 15 2nd Class 11
			Total rounds	20		H.P.S. 25 ... 20 H.P.S. 20 ... 15 H.P.S. 20 ... 8 H.P.S. 15 ... 12
						80 ... 55    40

\*If a trench cannot be built or improvised, this practice may be fired lying behind cover with rifle rested.

As for practices A, B, C and D above	PART II (B) The Empire Test will not be repeated by any recruit who qualified 1st Class in Part II (a). Those who do not qualify 1st Class will repeat Part II (a) and the highest of the two scores obtained in each practice will be taken to count in the aggregate score. Any ammunition allotted for repetition and not expended in repeating Part II (a) as above will be used for the further training of indifferent shots.	20	STANDARD OF CLASSIFICATION 1st Class, 55 points and over. 2nd Class, 40 points and under 55 points. 3rd Class, under 40 points.
1. Grouping	Small 200 yards	30	<p><b>Notes.</b></p> <p>i. A recruit's rifle will be zeroed in his presence before he begins to shoot.</p> <p>ii. Trained soldiers on the establishment of depots will fire Parts II and III of rifle course.</p> <p><b>DRESS</b> Recruits.—Drill order, canvas or service dress. Trained soldiers.—Service dress, marching order, and respirator in alert position.</p>
2. Grouping	Small 200 yards	30	
3. Grouping	Small 200 yards	30	
	Total rounds	15	
<p><b>RIFLE COURSE</b></p> <p>PART I (Fired at Depot) 30-YARDS RANGE</p>		<p>5 Lying (a).</p> <p>5 Lying (a).</p> <p>5 Lying (b).</p>	

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
4.	Grouping	Grouping	100	5	PART II (Fired at Depot) OPEN RANGE OR ALTERNATIVELY 30-YDS. RANGE 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. (45 seconds for trained soldiers at depots.)	When Part II is 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 7 and 8 may be carried out by word of command with the targets exposed.
5.	Grouping	Grouping	100	5		
6.	Slow	Small	200	5		
7.	Timed	Small	200	5		
8.	Snapshooting	Small	200	5	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.	*The 200-yds. representative target will be used. Trained soldiers at depots will fire this practice wearing respirators.
9.	Slow	Small	300*	5	Lying (a).	
10.	Slow	Large (convertible bull's-eye)	500	5	Lying (a).	
			Total rounds	35		
			Part II ...			

When Part III is 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 target, Practices 13 and 14 may be carried out by word of command with the target exposed.

†Trained soldiers at infantry depots will fire this practice with fixed bayonets and wearing respirators.

‡The 200-yds. representative target will be used.

PART III <i>Recruit's Test</i> (Fired at Depot)		OPEN RANGE OR ALTERNATIVELY 30-YDS. RANGE	
11. Grouping	100	5	Lying (b).
12. Slow	200	5	Lying (b).†
13. Snaphooting	200	5	Lying (b). † Rifle loaded, sights adjusted and safety catch forward. Butt and nose cap to be touching the ground before each exposure. Exposure, 5 seconds for each shot.
14. Timed	300‡	5	Lying (b), 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, 50 seconds. (40 seconds for trained soldiers at depots.)
15. Slow	500	5	Lying (a).
	Total rounds		
	Part III ...	25	

### Standard of Qualification. Part III

H.P.S. 105

STANDARD QUALIFYING SCORE FOR TRAINED SOLDIERS AT DEPOT—TO RETAIN THEIR CLASSIFICATION—70 POINTS.

STANDARD SCORE FOR QUALIFICATION OF RECRUITS—50 POINTS.

Trained soldiers and recruits who fail to qualify in the rifle course, Part III, may repeat any practice in Parts II and III, the ammunition being provided from the C.O.'s pool. Repetition scores will be counted for qualification.

No.	Practice	Target	Distance in yards	Rds.	Detail.	Remarks
-----	----------	--------	-------------------	------	---------	---------

PART IV

(Fired with unit)

This part or any practice of it may be omitted, at the discretion of C.Os. if the rifle course is completed without a long interval between Parts III and V. The ammunition so saved may be expended on the further training of indifferent shots.

16.	Grouping Slow	Grouping Small	100	5	Lying (b).	Note.—A 1st year man's rifle will be zeroed in his presence before he begins to shoot.
17.	Snapshotting	Large snap-shooting	200	5	Lying (b).	
18.			200	5	Lying (a). Rifle loaded; sights adjusted and safety catch forward. Butt to be touching the ground before each exposure. Exposure, 5 secs. for each shot.	
19.	Slow	Small	300	5	Lying (a).	
			Total rounds Part IV ...	20		

PART V

(Fired by 1st and 2nd Year Men)

PRELIMINARY

20.	Grouping	Grouping	100	5	Lying (b).	Notes.— i. Only 35 rds. will be fired by 2nd year men. C.Os. will select practices from Part V, one of which
21.	Slow	Small	300	5	Lying (b).	
22.	Rapid	Small	300	10	Lying (b). Rifle loaded with 5 rounds, remaining 5 to be in the pouch or bandolier, which will be buttoned. Sights adjusted,	

will be fired in respirators.  
 ii. In all "Gas" practices throughout the course, a short interval should be allowed after the order "Gas," to allow eye-pieces to clear.

safety catch forward; butt and nose cap touching the ground until the target appears. Time, 50 seconds.

Kneeling or sitting (b).

Gas. Lying (b).

Gas. Standing in trench (c) provided with an elbow rest. Rifle loaded with 5 rounds, remaining 5 in pouch or bandolier; bayonet fixed, respirator adjusted. Firer in "Position of readiness" (i.e. sights adjusted, safety catch forward, the whole of the rifle and bayonet concealed.) Time, 65 seconds.

Lying (c) round cover, butt and nose cap to be touching the ground before each exposure. Exposure, 5 seconds for each shot.

Lying (a).

Small  
 Small  
 Small

23. Slow  
 24. Slow  
 25. Timed

5  
 5  
 10

200  
 300  
 300

Large snap-shooting

26. Snap-shooting

5

300

Large (con-vertible bull's-eye)

27. Slow

5

500

Total rounds  
 Part V

50 for 1st year men.  
 35 " 2nd " "

PART VI

(Fired by 1st and 2nd Year Men)

CLASSIFICATION

Small  
 Small

28. Slow  
 29. Rapid

300  
 300

5  
 10

Lying (b).  
 Lying (b). Rifle loaded with 5 rounds, remaining 5 to be in the

Coaching.—

1st year men may be coached in Part VI.  
 2nd year men will *not* be coached in Part VI.

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
				PART VI— <i>contd.</i>		STANDARD OF CLASSIFICATION PART VI H.P.S. 140
30.	Snap-shooting	Large snap-shooting	300	10	<p>pouch or bandolier, which will be fastened. Sights adjusted, safety catch forward, butt and nose cap touching the ground until the target appears. Time, 45 seconds.</p> <p>Lying (c). Isolated cover. Rifle loaded with 5 rounds, remaining 5 in pouch or bandolier, which will be buttoned; sights adjusted and safety catch forward. Butt and nose cap to be touching the ground before each exposure. Exposure, 5 seconds for each shot. There will be an interval of 30 secs. between 5th and 6th exposure.</p> <p>Gas. Lying (b).</p> <p>Gas. Standing (c) in trench provided with an elbow rest. Rifle loaded, bayonet fixed, respirator adjusted. Firer in "Position of readiness" (i.e. sights adjusted, safety catch forward, the whole of the rifle and bayonet concealed). Time, 50 seconds.</p> <p>Lying (b).</p>	<p>1st Year 110</p> <p>2nd Year 85</p> <p>3rd Year 60</p> <p>Marksman under 50 under 60 (No marksman 1st year.)</p>
31. 32.	Slow Timed	Small Small	300 300	5 5	<p>i. A 1st class shot in Part VI in his second year who scores 95 points in Part VII will be graded up to marksman.</p> <p>ii. A 2nd class shot in Part VI in his second year who scores 75 points in Part VII will be graded up to 1st class.</p>	<p>Notes :—</p> <p>i. A 1st class shot in Part VI in his second year who scores 95 points in Part VII will be graded up to marksman.</p> <p>ii. A 2nd class shot in Part VI in his second year who scores 75 points in Part VII will be graded up to 1st class.</p>
33.	Slow	Large (convertible bull's-eye)	500	5	<p>iii. A 3rd class shot in Part VI in his second year who scores 60 points in Part VII will be graded up to 2nd class.</p> <p>iv. For repetitions, see Sec. 2, para. 5.</p>	<p>iii. A 3rd class shot in Part VI in his second year who scores 60 points in Part VII will be graded up to 2nd class.</p> <p>iv. For repetitions, see Sec. 2, para. 5.</p>
		Total rounds Part VI ...		40		



**PART VII**  
(Fired by 2nd and Subsequent Year Men)

**BATTLE SHOOTING**

*Note.*—25 rounds will be available for 3rd and subsequent year men for sighting rifles at the various distances before Part VII is begun.

**GENERAL NOTES.**

- i. In practices or phases where two or more targets are exposed simultaneously, the method of scoring will be :—  
3 points for each hit (except in Practice 35), plus *bonus* of 5 additional points if all targets exposed are hit, except in Phase III of Practice 39, when 5 points are given for each target hit.
- ii. Block capitals in brackets refer to target numbers as shown on the plan of the range (*see* Fig. I, page 29).
- iii. In practices in which targets appear from behind cover, the exposure will be gradual.
- iv. All targets in Practices 34 to 37 will appear from the butts.

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
34.	Snap-shooting	Fig. No. 3	200	5	Lying (b). Rifle loaded, sights adjusted, safety catch applied. Order, "Watch your front." 5 exposures, each of 4 seconds at irregular intervals of time over a period of 2 minutes, the last exposure to be in the last 30 seconds. 2 exposures will be in quick succession, with an interval of 4 seconds.	Scoring.—3 points for each hit. H.P.S. 15.
35.	Falling target	3 Figs. No. 3	300	5	Lying (c) isolated cover, rifle loaded, sights adjusted, safety catch back. Order, "Watch your front." Targets exposed for 1 minute: each figure will disappear when hit.	Scoring.—5 points for each target hit. Bonus = 5. H.P.S. 20.

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
36.	Rapid	Tank	300	PART 5	<p>VII—<i>contd.</i>            Standing in trench (c), rifle loaded.            GAS. Firer in "Position of            readiness" until target appears.            One exposure of 30 secs.</p>	<p>Scoring.—4 points for each            hit in the rectangle            surrounding any slit.            2 points for the remain-            der of the black.            H.P.S. 20.</p> <p>Note.—In order to save            time it is suggested that            Practices 35 and 36 be            fired in succession by the            same detail, targets for            Practice 36 being placed            in the back and the fall-            ing targets in the front            frame, both targets half-            masted till practice be-            gins.</p>
37.	Fire and move- ment	Phase I ( $\frac{1}{4}$ Fig. No. 2)	300-100	10	<p>Lying (b) at 400 yards, loaded with            5 rounds, safety catch back,            sights at 400 yards.  <b>Phase I.</b>—On appearance of tar-            gets from butts (<math>\frac{1}{4}</math> Fig. No. 2),            firer doubles forward to 300            yards, adjusts sights and fires            5 rounds lying (b). Time,            1 minute.</p>	<p>Scoring.—3 points for each            hit on target. H.P.S. 30.</p>

Phase II  
( $\frac{1}{2}$  Fig. No. 2)

**Phase II.**—As soon as Phase I is completed, firer will immediately load with 5 rounds, apply safety catch, fix bayonet and await order from conducting officer to advance (at the double) to 200 yards. On this advance being ordered, a signal will be given to the butts to indicate that Phase II has begun. 45 secs. after this signal, the targets ( $\frac{1}{2}$  Fig. No. 2) will be exposed 3 times for 4 secs. during a period of 45 secs., the last exposure to be in the last 15 secs. One shot will be fired at each exposure. Sights will not be adjusted till the firer reaches the 200 yards firing point. Position kneeling or sitting (*b*). Immediately after the last exposure in Phase II, the conducting officer will order "Safety catches back —Advance."

Phase III  
(Fig. No. 3)

**Phase III.**—5 secs. after final exposure in Phase II, the targets (Kneeling Figs. No. 3) will be exposed for 45 secs., during which time the firer will advance to 100 yards and fire 2 rounds in standing position.

No.	Practice	Target	Fired from	Rds.	Detail	Remarks
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PART VII (contd.)

Notes.

i. The remaining practices will be fired in lanes. Where classification ranges have not been adapted for battle shooting, C.Os. will improvise similar practices by arranging for the targets as specified in column 3 for Practices 38 and 39 of Part VII and the whole of Part VIII, which would normally appear in lanes, to be exposed in the butts on a three-target frontage.

ii. In the following practice (38), either (i), (ii) or (iii) condition will be fired, at the discretion of the supervising officer, who should vary the order for each detail so that firers are unaware of conditions until they are in position on the firing point.

iii. Before beginning Prac. 38, firers will be warned to take on all targets appearing on their front. They will not be told where targets will appear but must judge distances and adjust sights accordingly. Warn firers that not more than 5 rounds will be fired in each phase.

38(i)	Snap-shooting	2 Figs. No. 2	500 yards F.P.	5	Lying (c) (isolated cover). Rifle loaded, safety catch back, sights at 500. Order "Watch your front" and signal for 5 exposures (the first exposure will be for 15 seconds and the remainder of 5 seconds of Target (J) or (K)). Interval between exposures, 5 seconds.	Scoring.—3 points per hit, plus bonus (see General Note i. for Part VII). H.P.S. 20.
(ii)	Timed (gas)	2 Figs. No. 2	500 yards F.P.	5	Lying (b). Rifle loaded, safety catch back, sights at 500. Order, "Gas"—"Watch your front." Signal for one exposure of 45 seconds of Target (J) or (K).	
(iii)	Slow	2 Figs. No. 3	500 yards F.P.	5	Lying (b). Rifle loaded, safety catch back, sights at 500 yards. Order, "Watch your front" and signal for one exposure of 1 minute of Target (H).	

**Scoring.**—Normal, i.e. 4, 3, 2, 1. H.P.S. for Phase I, 20.

**Scoring.**—3 points per hit, plus bonus. H.P.S. for Phase II, 20.

**Scoring.**—5 points for each target hit, plus bonus. H.P.S. for Phase III, 20. H.P.S. for Practice 39, 60. H.P.S. for Part VII, 165.

Lying (b) at 600 yards. Rifle loaded, safety catch back, sights at 600 yards. On order "Advance", firer moves to 500 yards. As he approaches 500 yards F.P., order "Take cover" followed by "Watch your front." One exposure of 1 minute of Target (D) from butts.

Lying (b) at 500 yards. Rifle loaded, safety catch back. On order "Advance" firer moves to 400 yards. As he approaches 400 yards F.P., order "Take cover" followed by "Watch your front". Signal for Targets (H) or (F) to be exposed for 30 seconds.

Lying (c) at 400 yards. Rifle loaded, safety catch back. On order "Advance" firer moves to 300 yards. As he approaches 300 yards F.P., order "Take cover in trench" followed by "Watch your front." Target (C) exposed from butts for 1 minute on signal from firing point. Each figure will disappear when hit.

5 5 5

600-500 500-400 400-300

Phase I (large convertible landscape) Phase II (2 Figs. No. 2 or 3) Phase III (3 Figs. No. 3 (disappearing))

Fire and movement

Total rounds Part VII...

45

## PART VIII

## BATTLE SHOOTING

(Fired by 3rd and Subsequent Year Men only)

## GENERAL NOTES.

- i. Where two or more targets are exposed simultaneously in a practice or phase, the firer will, where mentioned in the column of remarks on the practice, receive a bonus of points if all targets are hit.
- ii. Explain to firers before they begin that all practices are slow unless otherwise stated (i.e. "Rapid" "Snap"), that they will engage all targets appearing in their lane and that they will be told before each exposure how many rounds to fire.
- iii. On no account will firers be told where their targets will appear. They will judge the distance themselves and adjust sights accordingly.
- iv. The block capitals in brackets indicate the position of the targets as shown in the plan of the range (*see* Fig. 1, page 29).
- v. All targets which are exposed from behind cover will appear very gradually.
- vi. In order that men do not become familiar with the positions in which targets appear, the order of appearance of targets in each phase will be varied at the discretion of conducting officers.
- vii. Part VIII will be fired through continuously as one practice and 30 rounds will be issued to each man before starting.
- viii. A soldier who is a 3rd class shot in his 2nd year will *not* fire Part VIII in his 3rd year, unless specially recommended by his C.O. after repetition, *see* Sec. 2, sub-para. 5, iii, but will repeat and classify on Parts VI and VII. In subsequent years, however, he will fire Parts VII and VIII.
- ix. *See also* the Appendix to this Pamphlet.

No.	Practice.	Target	Fired from	Rds.	Detail	Remarks
40.	Phase I, Application	Large convertible landscape	500 yards F.P.	5	Lying (c), position of readiness round cover, rifle loaded, with sights at 500. Order, "Watch your front." Target (D) exposed from butts for 1 minute.	Scoring.—Normal (i.e. 4, 3, 2, 1). H.P.S. 20.
	"	2 Figs. No. 3	"	3	Shortly after Target (D) has disappeared, order "Watch your front," and signal for Target (H) to be exposed once for 35 seconds.	3 points per hit=15. Bonus if all targets in both groups (H) and (J) or (K) are hit, 5. H.P.S. 20. H.P.S. for Phase I, 40.
	Snap-shooting	2 Figs. No. 2	"	2	Shortly after Target (H) has disappeared, order "Watch your front," and signal for Target (J) or (K) to be exposed once for 15 seconds.	

Phase II (the advance)	2 Figs. No. 4	500-400	5	<p>When Target (J) or (K) has appeared, order firers to advance from 500 yards to 400 yards. On approaching, 400 yards F.P., order "Take Cover"—"Watch your front." Signal for Target (G) to appear once for 1 minute.</p>	Scoring.—3 points per hit. H.P.S. 15.
Snap-shooting	Fig. No. 2 (on pole)	400-300	2	<p>Shortly after disappearance of Target (G), order firers to advance from 400 yards to 300 yards. On approaching, 300 yards F.P., order "Take cover"—"Watch your front." Signal for Target (B) to be exposed from the butts twice (1st exposure 10 secs., 2nd 5 secs.), each exposure in a different position on a frontage of 12 yards. Interval between exposures, 7 secs.</p>	Scoring.—3 points per hit. H.P.S. 6.
Rapid	Group of 2 Figs. No. 3 and 1 Fig. No. 4	300	3	<p>On final disappearance of Target (B), order "Watch your front," and signal for one exposure of 20 seconds of Target (F).</p>	Scoring.—2 points per hit plus a bonus of 3 points if all targets are hit. H.P.S. 9. H.P.S. for Phase II, 30.
Phase III (crossing target)	Fig. No. 6	300	5	<p>On disappearance of Target (F), order "Watch your front," and signal for Target (E) to appear from butts. This target will appear 5 times, crossing frontage (12 yards) of each firer at a brisk walk, 3 times from right to left, and twice from left to right. The figure will be lowered when hit.</p>	Scoring.—3 points per hit. H.P.S. 15.

No.	Practice	Target	Fired from	Rds.	Detail	Remarks
	Phase IV (falling target)	3 Figs. No. 3 (disappearing)	300	PART 5	PART VIII (contd.) On conclusion of Phase III, order "Take cover in trench"— "Gas"—"Watch your front." Then signal for one exposure of 1 minute of Target (C) from butts. Each Fig. No. 3 to dis- appear when hit.	Scoring.—5 points for each target hit, plus bonus of five points if all tar- gets are hit. H.P.S. 20. H.P.S. Part VIII: 105 " VII: 165 Total 270
			Total rounds Part VIII	30		STANDARD OF CLASSI- FICATION PARTS VII AND VIII H.P.S. 270 for a Standard Range  Marksman, 160 points. Service shot, 90 points. Failed, below 90 points. (For repetition of men wh "Fail," see Sec. 2, sub para. 5, iv.)



# BATTLE SHOOTING TARGETS ON CLASSIFICATION RANGE.

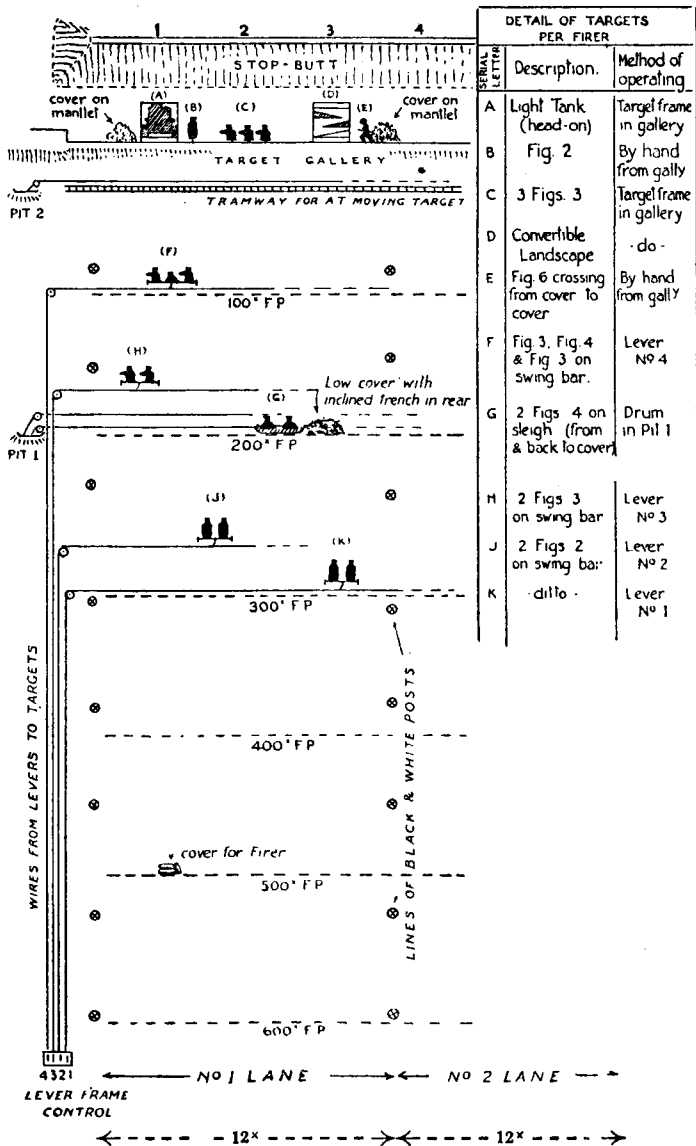


Fig. 1.

## SECTION 3.—THE LIGHT MACHINE GUN COURSE

1. This course is designed to afford practice in developing the qualities required in a light machine gunner, *see* Pamphlet No. 4, pages 4 and 5.

### 1st Year Men

2. 1st year men will normally fire Part I at the depot \* and the remainder with the unit.

For definition of "1st year men" *see* Section 2, sub-para. 2, ii.

The instructions contained in Section 2, sub-paras. 2, iii and iv, apply also to the L.M.G. course. 1st year men will normally fire Part I at the depot \* and Parts II and III with the unit. But, if there is no 30-yards range at the depot, Part I will be fired with the unit.

### Repetitions

3. C.Os. may order backward shots to repeat further practices, but there will be no reclassification.

### Coaching

4. *See* Pamphlet No. 1, Sec. 3, para. 4, and Appendix II.

### Organization for firing the L.M.G. Course

5. A system similar to that advocated for the rifle course is recommended, *see* Sec. 2, para. 7. Firing in lanes will only take place in Practice 18.

### Penalties for Short Bursts

6. Automatic practices are to be fired in bursts of 4 to 5 rounds. A firer who, in any practice, fires more than one burst of less than 4 rounds will be penalized by the deduction of 5 points for each burst so fired from the score obtained in the practice. The last burst fired is exempt from this penalty. (Not applicable to Part I.)

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\* In the case of Household Cavalry and Cavalry of the Line (horsed), with the regiment.

L.M.G. COURSE

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
1.	Repetition	Plain screen with 1-inch black aiming mark	25	5	<p>PART I (Fired at Depot) 30-YARDS RANGE</p> <p>The 5 rounds to be fired singly at the same aiming mark. To test accuracy of aim combined with trigger pressing.</p>	<p><i>Dress</i> <b>Recruits.</b>—Drill order, canvas or service dress. <b>Notes:</b>— 1. Part I will also be fired by trained soldiers on the establishment of depots. 2. Practices 2 and 3 will be fired consecutively by each firer without leaving the firing point. 3. 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 (see Pamphlet No. 1, Appendix I, 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><b>Object.</b>—To practise holding, aiming, and regulating length of bursts. To be fired in 2 bursts at different aiming marks, applying the groups from experience gained in Practice 2.</p>	<p><b>Scoring.</b>—None, but position and shape of groups will be criticized. Each group will be marked for both grouping and application, the two markings being added</p>

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
			Total rounds Part I	25	<b>Object.</b> —To teach the application of a burst of fire to the mark.	together to obtain the score for each burst. <b>Scoring.</b> — 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 (aim, 10 points. Within 3 inches of point (aim, 6 points. H.P.S. for each burst, 2 points.
4.	Ranging and fire discipline	Steel plates on stop-butt	300	20 (Fired with Unit)	<b>PART II</b> To be fired in 4 or 5 bursts, the firer observing and making the necessary corrections between bursts.	<b>Dress.</b> —Trained soldiers and recruits with uniform service dress, marching order and respirators in "alert" position. <b>Scoring.</b> —Each direct hit on scoring surface (target 2 points. H.P.S. 30 points.
5.	Application at slow rates	Small	300	15	15 rounds in one magazine. To be fired with suitable pauses in 3 or 4 bursts under the instructions of the coach. The M.P.I. will be signalled after each burst.	
		Total rounds Part II		35		

## PART III

(Fired by 1st and 2nd year men, except men of the mortar platoon, signal platoon and M.T. drivers in their 2nd and subsequent years and those exempted under Sec. 1, para. 8.)

## INSTRUCTIONAL AND CLASSIFICATION

*Note.*—All firing will be by bursts unless the conditions state otherwise.

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
6.	Repetition	Small	300	8	The first 3 shots will be for sighting and will be marked in the normal way. The target will be checked and shot-holes patched. It will then be exposed for 30 seconds. Gun loaded, sights adjusted and butt on the ground till the target appears.	Scoring.—As for Rifle. H.P.S. 20.
7.*	Ranging	Small	300	15	To be fired in 3 or 4 bursts. The M.P.I. will be signalled after each burst.	*This practice does not count for classification.
8.	Application	Small	300	15	To be fired in 3 or 4 bursts.	Scoring.—Each direct hit on scoring surface of target, 2 points. H.P.S. 30.
9.	Action and distribution	L.M.G. screen in target frame	300	24	24 rounds in 2 magazines (15 in one and 9 in the other). No. 1 will be lying behind the gun 5 yards in rear of the firing point, with ammunition in pouch.† Sights at 200 yards. The order "Prepare for action" will then be given. When all guns have been reported "Ready," the signal "Action" will be given, when the firer will move to the firing point, mount the gun, load, adjust sights and open fire.	Scoring.—Each scoring rectangle containing: 1 shot counts 2 points. 2 " " 4 " 3 " " 6 " 4 or more shots counts 8 points. H.P.S. 40. †Until pouch equipment is issued, ammunition may be placed on the ground beside the gun.

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
10.*	Ranging	Large (con-vertible landscape)	500	8	<p>PART III—<i>contd.</i> Fire will be distributed irregularly in bursts, as laid down in Pamphlet No. 2, Lesson 15. Time: 60 seconds allowed from the signal "Action."</p>	*This practice does not count for classification.
11.	Application at slow rates	Large (con-vertible landscape)	500	15	<p>To be fired in 2 bursts of 4 rounds each. The M.P.I. will be signalled after each burst. Gas. 15 rounds in one magazine. The conducting officer will give the order "3 bursts—Fire" and will time the pace of the practice by blowing his whistle twice at intervals of 12 seconds after having given the order to fire. The firer will be in the aiming position with the gun loaded, sights adjusted, and will fire one burst when the order "Fire" is given, and subsequently will fire one burst after each time the whistle sounds. Time limit, 40 seconds.</p>	Scoring.—Each direct hit on scoring surface of target, 2 points. H.P.S. 30 points.
12.	Fleeting target	Large (con-vertible landscape)	500	15	<p>15 rounds in one magazine. Firer in position on the firing point on the ground and sights at 200 yards until the target appears. As soon as the target is raised, the firer will adjust his sights and fire. The target will be exposed for 20 seconds.</p>	Scoring.—Each direct hit on scoring surface of target, 2 points. H.P.S. 30. STANDARD OF CLASSIFICATION, PART III H.P.S. 150

*1st year*  
 Marksman L.M. Gnr. —  
 1st Class " " 80  
 2nd " " " 50  
 and under 80.  
 3rd Class L.M. Gnr., under  
 50.

*2nd year*  
 Marksman L.M. Gnr., 110.  
 1st Class L.M. Gnr., 90 and  
 under 110.  
 2nd Class L.M. Gnr., 60  
 and under 90.  
 3rd Class L.M. Gnr., under  
 60.

This practice will first be  
 fired by an instructor as  
 a demonstration. After  
 he has demonstrated,  
 practice by individuals  
 will be carried out with-  
 in the limits of ammuni-  
 tion allowed by the  
 C.O. 15 to 20 rounds  
 should be sufficient to  
 test the fire effect  
 obtained. It is impor-  
 tant that those witness-  
 ing the demonstration  
 should have an oppor-  
 tunity of seeing the  
 results of the shooting.

Total rounds  
 per indivi-  
 dual, Part  
 III

100

Any conveni-  
 ent position  
 not farther  
 than 600  
 yards or  
 closer than  
 400 yards

Large (con-  
 vertible  
 landscape)

13.\* Fixed line

With gun mounted on the tripod,  
*see* Pamphlet No. 4, Lesson 19,  
 page 41.  
 Before individuals are exercised,  
 the tripod will be moved and  
 firers practised in above pro-  
 cedure.

Allot-  
 ment  
 from  
 C.O.'s  
 pool

## PART IV

(Fired by 3rd and Subsequent Year Men only)

No.	Practice	Target	Fired from	Rds.	Detail	Remarks
14.*	Ranging	Large (con- vertible landscape)	500 yards F.P.	8	To be fired in 2 bursts. The position of the M.P.I. will be signalled after each burst.	* <i>Note.</i> —These practices do <i>not</i> count for classification.
15.	Fleeting target	Head-on tank	500 yards F.P.	14	14 rounds in one magazine. Firer in position on the firing point, with gun loaded, butt on the ground, and sights at 200 yards. Order, "Gas,"—"Watch your front." On the appearance of the target, the firer will adjust his sights and fire. Exposure, one for 20 seconds.	Scoring.—2 points per hit on scoring surface of target. H.P.S. 28.
16.	Emergency	Fig. No. 4	400 yards F.P.	15	The firer will be lying behind his gun, 10 yards in rear of the firing point, with an empty magazine on the gun and 15 rounds in chargers in his pouch. On the appearance of the target he will load the 15 rounds into the magazine, run to the firing point, load his gun and engage the target. Exposure, 1 minute. The magazine will <i>not</i> be placed on the gun till it is in position on the firing point.	Scoring.—2 points per hit. H.P.S. 30.



17.*	Ranging	Large (con- vertible landscape)	600 yards F.P.	10	To be fired in 2 bursts, M.P.I. to be signalled after each burst.
18.	Fire with movement	Phase I— Large (con- vertible landscape)	600 yards F.P.	12	<p>(Firer will commence the practice with 3 magazines, each containing 12 rounds which will eventually be carried in the new equipment.)</p> <p>Firer in position on the firing point, with gun loaded, butt on ground, and sights at 200 yards.</p> <p>Order "Watch your front," and signal for one exposure of 30 secs. of Target (D) from butts.</p>
"	"	Phase II— 2 Figs. 4 on sledge (from "cover") represent- ing enemy L.M.G. in action.	600 to 500 yards F.P.	12	<p>On disappearance of Target (D), the order "Cease firing" will be given and the firers ordered to advance to 500 yards. On approaching 500 yards F.P. order "Take cover"—"Watch your front," and signal for Target (G) to appear for 30 seconds.</p>

**Notes.—**

i. Where classification ranges have not been adapted for battle shooting, see note i, page 24.

ii. General Notes iii. to vi. inclusive (see page 26) apply to this practice, which is a continuous one.

**Scoring.**—2 points per hit on scoring surface of target. H.P.S. 24.

**Scoring.**—1 point per hit, plus 4 points for each target hit. H.P.S. 20.

No.	Practice	Target	Fired from	Rds.	Detail	Remarks
	Fire with movement	Phase III— Group of 2, Figs. 3 and 1 Fig. 4	500 yards F.P.  Total rounds Part IV ...	12  83	PART IV— <i>contd.</i> On disappearance of Target (G) order "Watch your front," and signal for one exposure of Target (F) for 30 seconds.	<p>Scoring.—1 point per hit, plus 4 points for each target hit. H.P.S. 24. H.P.S. for Practice 18, 68. H.P.S. for Part IV, 126.</p> <p>STANDARD OF CLASSIFICATION, PART IV H.P.S. 126</p> <p>Marksman ... .. 75 Service Shot ... .. 40 Failed ... .. under 40</p>

All 3rd and subsequent year men will fire or witness a fixed line practice, as outlined in Part III, L.M.G. Course.

## **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 or partially exempt, will fire the whole of this course but will not be classified.

## 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 section of 4 firers. Section ordered "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 section'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 section of 4 firers. Section ordered "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. Section will fire <i>one</i> round at each run, reloading in the shoulder. 3 runs, each of 3 seconds. Section target will be criticized at 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, 10 seconds from order "Aircraft Action." Group will be criticized on conclusion of practice. With centre of grouping ring on</p>
2.	A.A. Rapid Fire (Rifleman)	A.A. Crossing	10	3	<p>Fired by a section of 4 firers. Section ordered "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. Section will fire <i>one</i> round at each run, reloading in the shoulder. 3 runs, each of 3 seconds. Section target will be criticized at conclusion of each practice.</p>
3.	A.A (L.M.G.)	A.A. Attacker	10	8	<p>Fired by a section of 4 firers. Section ordered "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 section'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 section of 4 firers. Section ordered "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. Section will fire <i>one</i> round at each run, reloading in the shoulder. 3 runs, each of 3 seconds. Section target will be criticized at 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, 10 seconds from order "Aircraft Action." Group will be criticized on conclusion of practice. With centre of grouping ring on</p>

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.)

14  
10  
A.A. (L.M.G.) A.A. Crossing

14

10

A.A. (L.M.G.) A.A. Crossing

4.

10  
30  
Total rounds

14

10

A.A. (L.M.G.) A.A. Crossing

4.

Total rounds

30

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

5. Hosepipe (To be fired where facilities exist) Balloons or towed drogue targets

2 magazines per man for all H.Q., A.A. L.M. gunners (60 rds.)

According to area

Balloons or towed drogue targets

Hosepipe (To be fired where facilities exist)

5.

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.—FIELD FIRING.

(See Pamphlet No. 1, Sec. 3, paras. 29–40.)

1. .303-in. ammunition for field firing is allotted on a basis of 20 rounds for each man. This ammunition will be used exclusively for field firing,\* except that, if facilities for carrying out field firing do not exist, it may then be used for additional battle shooting,\* but for no other purpose.

2. Examples of section exercises are given below, as a **guide only**. So far as possible, exercises should be framed to bring out the co-operative use of the various platoon weapons, in conjunction with use of ground and formations.

### Example No. 1—Rifle

#### 1. Lessons :—

- i. Snapshooting fire orders.
- ii. Control by section commander.
- iii. Fire discipline training :—
  - (a) When executing snapshooting fire order.
  - (b) When under control of section commander.
- iv. Difficulties of controlling section when wearing respirator.

#### 2. Preliminaries :—

- i. *Targets*.—A few scattered, skilfully placed figure targets, a target representing an enemy L.M.G., and 7 Figs. 2 representing enemy section advancing extended at close range.
- ii. *Firers*.—No. 1 Section (without L.M.G.).
- iii. *Ammunition*.—10 rounds for each firer.

#### 3. Situation (explained to section).—

“ You are part of an advancing force but have just been held up here (indicates) by enemy fire. Your platoon commander has ordered you to engage all targets appearing on your front.”

---

\* The term “ battle shooting ” refers to the individual practices at service targets fired in the rifle and L.M.G. courses.

The term “ field firing ” refers to collective exercises carried out by sub-units with ball ammunition on field-firing ranges. These exercises will be drawn up under arrangements made by C.Os. They may be designed on a section, platoon or company basis. Examples of section field firing exercises only are given here.

**4. Method of conducting.**—Sections are extended in position with rifles loaded.

The section commander is told that he is being sniped by unlocated enemy snipers in a given area (indicate). The conducting officer from time to time causes figure targets to appear cautiously. Next follows a gas alarm, and at that moment an enemy L.M.G. opens fire on the front.

After a suitable interval an enemy section appears advancing in extended order at close range (on a flank if safety permits).

**5. Points for discussion** (*see Pamphlet No. 1, Sec. 3, para. 35*).

Method of giving snapshooting fire order.

Vigilance of section in locating targets.

Section commander's control when wearing respirator.

His subsequent fire orders.

Action of men of section.

Fire effect obtained.

### **Example No. 2—L.M.G. and Smoke**

#### **1. Lessons :—**

- i. Initiative on the part of section commander.
- ii. Use of ground, fire and manœuvre.
- iii. Combination of fire and use of smoke.
- iv. F.D.T.

#### **2. Preliminaries :—**

- i. *Targets.*—One, representing an enemy M.G.
- ii. *Firers.*—No. 1 Section (with L.M.G.) and No. 2 Section (3 men only).
- iii. *Ammunition.*—10 rounds for each rifleman, and 5 magazines of 20 rounds each.

**3. Situation.**—A platoon, advancing, is surprised in the open by a hitherto unlocated enemy M.G. about 700 yards away, which has suddenly opened fire. As a result, No. 3 Section are all casualties and only 3 men of No. 2 Section (carrying a discharger and 4 smoke grenades) are left. No. 1 Section is intact but all Platoon H.Q., except the runner, are casualties.

**4. Method of conducting.**—*Explain:* "You are commanding No. 1 Section, which is using its L.M.G. You are held up by that M.G. (indicated). The platoon commander was coming forward to make a plan of attack when he was killed. But his runner, who was accompanying him, says to

you : ' Lt. X was saying at the moment he was hit that the hostile M.G. *must* be taken and that all No. 3 Section and half No. 2 Section are casualties. He added that, when he reached your section's position and saw the ground, he hoped it would be possible to work the L.M.G. forward under cover round the left flank (covered if necessary by the riflemen) to a better fire position, whence it could cover the assault, but that, if the ground did not permit of this, he would have to leave the gun here to cover the riflemen forward.' He added : ' Anyway, No. 2 Section still has 3 men, a discharger and 4 smoke grenades which I can use.' "

As senior remaining N.C.O. of the platoon, draw up and execute your plan.

**5. Points for discussion** (see Pamphlet No. 1, Sec. 3, para. 35).

- Was ground used to best advantage ?
- Was gun position suitable ?
- What arrangements were made for ammunition with gun ?
- Was line of advance suitable ?
- Was assault correctly conducted ?
- Was smoke used to best advantage ?
- What fire effect was obtained by the gun and were the rates of fire correct ?

### **Example No. 3—L.M.G. and Rifle**

*Note.*—If danger areas permit and suitable positions exist, this exercise may be carried out on the flank of a classification range, targets appearing from the butts.

#### **1. Lessons :—**

- i. Application of knowledge of elementary and advanced handling to a tactical situation.
- ii. Need for self-reliance and common sense.
- iii. J.D. and ranging by observation.

#### **2. Preliminaries :—**

##### *i. Targets.*—

No. 1—Enemy L.M.G.

No. 2—Enemy section extended. 6 Figs. 2 (to be replaced by 6 Figs. 4 as soon as rifle section opens fire).

No. 3—Enemy L.M.G. about 100 yards to right of No. 1 target.

##### *ii. Firers.*—One section.



iii. *Ammunition.*—

*No. 2 Section (with L.M.G.).*

1 magazine of 5 rounds on gun	} These 4 numbers represented by "dead" men.
3 empty magazines on No. 1	
3 " " in No. 2's carrier	
3 " " in No. 3's " "	
3 full " " on No. 4 in pouch equipment	

(Rest of section not represented.)

*No. 3 Section (without L.M.G.).*

10 rounds for each man.

**3. Situation.**—Explain to the rifle section :—

" Your company is fighting a strenuous rear-guard action. Nos. 1 and 2 platoons are acting as rear party and have been ordered to hold off the enemy at all costs for at least 20 minutes.

Both platoons are being heavily engaged.

You are No. 3 Section (position indicated), and No. 2 Section is about 80 yards to your left (indicated).

You receive the following message from Platoon Commander :—

' No. 2 Section on your left has stopped firing. Presume all are casualties. Fire from L.M.G. urgent in order to hold off enemy. Send two of your section to get the gun into action immediately.' "

**4. Method of conducting :—**

- i. Practice begins when two riflemen are ordered to get the L.M.G. into action.
- ii. As soon as these two riflemen go off on their task, targets Nos. 1 and 2 appear.
- iii. As soon as No. 2 target is engaged by No. 3 section, the 6 Figs. 2 will be replaced by 6 Figs. 4. The latter will be exposed for 5 secs. at irregular intervals and alternately in twos or threes (to represent enemy taking snapshots), and will continue to be so exposed, whether hit or not, till the end of the practice.

(No. 3 section will not be allowed to fire at either No. 1 or No. 3 targets.)

- iv. When No. 1 target is hit, it will be lowered and No. 3 exposed. This will also be lowered if hit.

- v. The practice will end when both L.M.G. targets have been hit or, alternatively, when all ammunition has been expended.
- vi. The exercise can be repeated for other members of No. 3 section.

**5. Points for discussion** (see Pamphlet No. 1, Sec. 3, para. 35).

- i. How did situation present itself to section commander ? Did he act quickly and clearly ? Did he detail two riflemen nearest No. 2 section ? Did he send or consider sending second in command of section as one of the two men detailed to fire gun ?
- ii. Was best route to gun selected ? (Time ? Speed ? Cover ?) (Do not give away gun's position by going straight to it.)
- iii. Did they realize gun must be moved away from its present position—(alternative position) ? Did they make mistake of both going up to position to move gun back ?
- iv. Was there any co-ordination of duties ? Did No. 1 think of looking for ammunition on No. 1 while on gun position ? Meanwhile, what was No. 2 doing ? Did he think of looking for ammunition on dead men ? Or did he think of helping No. 1 in finding new position for gun ?
- v. Did No. 1 examine gun behind cover ? Was wallet removed from No. 1 ?
- vi. Position selected—was it good ? Was gun correctly mounted in it ? Was there any exposure in moving into it ?
- vii. Was J.D. and correction of range by observation done well ?
- viii. What fire effect was obtained ?

## 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, Sec. 3, and Pamphlet No. 11, 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 when firing the grouping practices.

### Misfires and Jams

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

### Mounted Practices

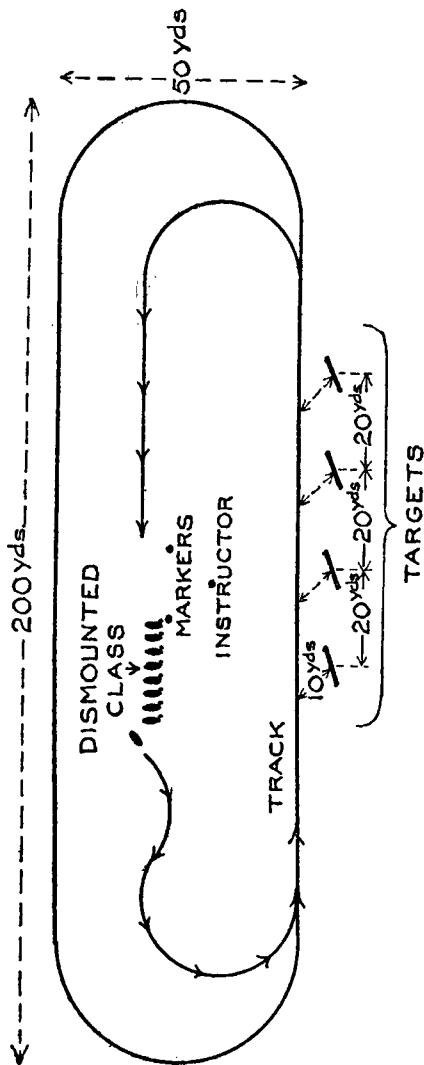
6. For preliminary training, see Pamphlet No. 11, Lesson 6.

7. The squad, dismounted, will be formed as shown in Fig. 2. Each practice will be explained by the instructor before it is fired. He will then order "Load". This will be done in the normal way, placing the left arm through the reins. On the order "No. 1, Mount", "No. 1, Right Turn", "Walk March", "On the Target—Canter", No. 1 will move out from the right, at the pace laid down for the practice, fire one shot at each target, return the pistol to the case and approach the left flank of the squad at the trot, taking up his position on that flank.

When the targets have been checked and hits recorded, this process will be repeated for the other members of the squad. Firers will then dismount and pistols will be inspected.

8. Targets will be placed at 20 yards' interval and about 7 yards outside the track, facing the firing points. The firing

point for each target will be a point on the track about 10 yards from the target. Targets will be square to the firing points, according as the direction of the firer's approach is from the left or from the right (see Fig. 2).



The positions of targets are for firing to the *right* front. For practices fired to the *left* front movement will be in the opposite direction to that shown above.

Fig. 2.

## PISTOL COURSE

### Part I.—PRELIMINARY (using sights)

No.	Practice	Detail	No. of rounds	Range, yards	Target	Score and 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=20 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. 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. <i>Practice</i> 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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Part II.—INSTRUCTIONAL without using sights—continued

No.	Practice	Detail	No. of rounds	Range, yards	Target	Score and H.P.S.	Remarks	
4.	Application	Double action. 3 secs. for 3 shots.	3 either hand	10	1 Fig. 2	15	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.	
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)**

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	
<b>Total Part III</b>			<b>10 rds.</b>				

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

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

**Part IV.—MOUNTED (right hand only)**

Fired by personnel of horsed cavalry regiments only who have qualified in Part III.

No.	Practice	How fired	Direction	No. of rounds	Approximate range	Target	H. P. S.	Remarks
12.	Attack at walk	Double action	Half right	3	10 yards	3 small (4 ft.) (as used for rifle)	No score	<p>*In addition, points up to a maximum of 5 will be allotted for horsemanship in each practice by the conducting officer.</p> <p>Scoring:  <i>Practices 14 to 17.</i>—                      Each shot within 16×12-in. rectangle=5 points.                      Each shot on remainder of target=3 points.                      Horsemanship (each practice)=5 points.</p> <p>QUALIFYING STANDARD,                      PART IV                      H. P. S. 80                      Qualified: 45 and over.                      Failed: under 45.</p>
13.	Attack at canter	"	"	3	"	"	"	
14.	Attack at walk	"	"	3	"	3 Figs. No. 2	15*	
15.	Attack at canter	"	"	3	"	"	15*	
16.	Attack at walk	"	Half left	3	"	"	15*	
17.	Attack at canter	"	"	3	"	"	15*	
Total Part IV								

*Notes.*—i. For preliminary instruction, see Sec. 5, paras. 6 and 7.  
 ii. For position of targets, see Fig. 2.



## SECTION 7.—THE ANTI-TANK RIFLE COURSE (PROVISIONAL)

(See Pamphlet No. 5, 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 is a duplicate target. Both targets are divided into 1-ft. squares (*see* Fig. 3). 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. 3), the marker merely telephones " Square 34 ". The position of the shot is then plotted on the target at the firing point.

5. The dimensions of the silhouette tank target will be issued.

### THE 6-FT. HEAD-ON TANK TARGET

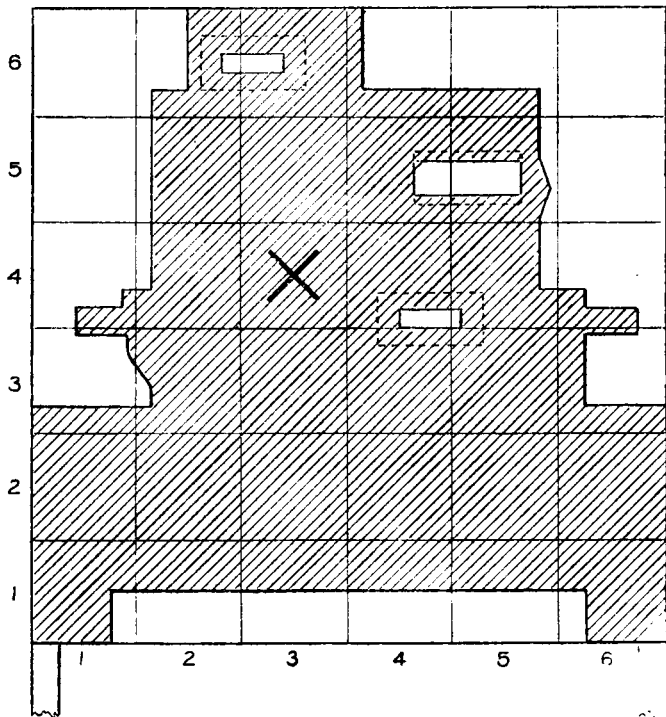


Fig. 3.

ANTI-TANK RIFLE COURSE (PROVISIONAL)

No.	Practice	Target	Distance in yards	Rds.	Detail	Remarks
<b>PART I.—<math>\frac{1}{2}</math>th scale with .22-in. or .303-in. ammunition.</b>						
1.	Preliminary	Crossing (representative tank)	100	6	3 rds. each direction.	
†2.	Direct crossing	"	100 Total rounds	6 12	" " "	<b>Scoring.</b> —Each hit in circle, 2 points. Rest of scoring area, 1 point. H.P.S. 12 points.
<b>PART II.—A/T range with .55-in. ammunition. (Suggested Course where practicable.)</b>						
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. 7, para. 5).	†These practices are Classification.
†4.	Snaphooting	Silhouette 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.	<b>Scoring.</b> —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	"	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	"	500-200	5	Undulating run. 5 rounds to be fired while target is moving.	Scoring.—Each hit on tank, 2 points. H.P.S. 10 points. <i>H.P.S. for course, 56</i>
Total rounds				25	CLASSIFICATION	
Marksman A/T rifleman, 45 points. Qualified, 30 points. Failed, under 30 points.						

TABLE III.—INDIVIDUAL CLASSIFICATION AND QUALIFYING STANDARDS

CAVALRY REGIMENTS (HORSED) AND INFANTRY (RIFLE) BATTALIONS

(Note.—Unit figures of merit will not be worked out.)

Category	Miniature Rifle			Rifle .303-in.									L.M.G.						Pistol				Anti-tank Rifle			
	(Part II)			Part III	Part VI				Parts VII and VIII			Part III			Part IV			Part III		Part IV		Marks-man	Qualified	Failed		
	1st cl. shot	2nd cl. shot	3rd cl. shot	Qualifying standard	Marks-man	1st cl. shot	2nd cl. shot	3rd cl. shot	Marks-man	Service shot	Failed	Marks-man	1st cl. gnr.	2nd cl. gnr.	3rd cl. gnr.	Marks-man	Service shot	Failed	Qualified	Failed	Qualified				Failed	
1st year men ...	55 and over	40 and under 55	under 40	50	—	75 and over	50 and under 75	under 50	—	—	—	—	80 and over	50 and under 80	under 50	—	—	—	—	—	—	—	—	—	—	—
2nd year men ...	—	—	—	—	110 and over	85 and under 110 (a)	60 and under 85 (b)	under 60 (c)	—	—	—	110 and over	90 and under 110	60 and under 90	under 60	—	—	—	25	under 25	45	under 45	45 and over	30 and under 45	under 30	
3rd and subsequent year men ...	—	—	—	—	—	—	—	—	160*	90*	under 90*	—	—	—	—	75* and over	40* and under	under 40*	25	under 25	45	under 45	45 and over	30 and under 45	under 30	
Est. at regtl. depots ...	—	—	—	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25	under 25	—	—	—	—	—	
Wholly exempt ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	25	under 25	45	under 45	—	—	—	

## Notes.

(a) A 1st class shot in Part VI who scores 95\* points in Part VII will be graded up one class to marksman.

(b) A 2nd class shot in Part VI who scores 75\* points in Part VII will be graded up one class to 1st class.

(c) A 3rd class shot in Part VI who scores 60\* points in Part VII will be graded up one class to 2nd class.

Degrading on Part VII will not take place.

\* Or pre-determined score for the particular range.

## SECTION 8.—ANNUAL MORTAR PRACTICE

1. Annual mortar firing differs from the firing of the other weapons in the rifle battalion in that it cannot be regarded as a range course, nor is it a test for individual members of the mortar platoon.

It is designed to practise the fire controllers and their understudies in the engagement of targets with H.E. and in the method of producing a smoke screen.

The annual allotment of ammunition is laid down by the War Office and this ammunition is for the use of fire controllers only to carry out the shoots enumerated below.

The tables given in this section are based on the allotment for 1937-38 and it will be noted that in no case is there sufficient ammunition to fire for effect with H.E. or for the actual production of a smoke screen.

The H.E. allotment is sufficient for the complete process of ranging on a point target, and the smoke allotment allows the fire controller to decide accurately on the position of his point of origin.

Where the range restricts a unit to powder-filled bombs only, the smoke shoots should be carried out as area H.E. shoots.

The annual practice is divided into three parts as enumerated below.

### 2. Part I.

- i. *Object.*—The engagement of point targets to exercise untrained fire controllers and understudies in the rules of ranging.
- ii. *General.*—The ammunition allotted will normally be fired by N.C.Os. who have recently been posted to the mortar platoon and have not controlled mortar fire with live ammunition, and by detachment orderlies and selected private soldiers who are about to be promoted and remain in the mortar platoon.

In all shoots the mortar should be within easy voice control of the O.P. and only simple point targets should be engaged.
- iii. *Conduct.*—(a) The fire controllers to be exercised should be assembled near the O.P. under the platoon commander in a position from which they can hear the fire control orders and observe the fire. On the conclusion of each shoot the platoon commander will discuss the orders given.

(b) The spare mortar numbers of the whole platoon should be assembled near the mortar under the platoon serjeant in a position from which they can watch the drill and fire discipline. On the conclusion of each shoot the platoon serjeant will point out the mistakes made and change round the detachment at the mortar prior to the next shoot.

Nature of Shoot	No. of fire controllers exercised	No. of rounds per fire controller		Total rounds per battalion	
		H.E.	Smoke	H.E.	Smoke
Point target. Voice control	8	8	0	64	0

### 3. Part II.

- i. *Object.*—The neutralization of small areas with H.E. or the screening of areas with smoke after bringing the mortar into action under service conditions.
- ii. *General.*—The ammunition allotted will normally be fired by the detachment commanders and detachment corporals of the platoon.
- iii. *Conduct.*—The tactical situation will be given to the fire controller by an officer representing the rifle commander under whom the mortar detachment has been placed. On the conclusion of each exercise the platoon commander will comment on :—

(a) The selection of the O.P., base plate position and position in readiness.

(b) The occupation of the position.

(c) The engagement of the target.

The platoon serjeant will note mistakes made in drill.

Nature of Shoot	No. of fire controllers exercised	Subjects which could be practised	No. of rds. per fire controller		Total rds. per bn.	
			H.E.	Smoke	H.E.	Smoke
Eight detachment exercises. Area shoots.	8	Casualties. Long control. Gas. Safety problems.	8	0	64	0

#### 4. Part III.

- i. *Object.*—As for Part II, introducing the employment of two mortar detachments under one rifle commander.
- ii. *General.*—The ammunition allotted will normally be fired by the detachment commanders and detachment corporals of the platoon.
- iii. *Conduct.*—The tactical situation will be given to the mortar section commander by an officer representing the rifle commander under whom the mortar section has been placed, and each exercise will be so conducted that both detachments are leap-frogged into action in turn. In other respects the conduct of these exercises is the same as in Part II.

Nature of Shoot	No. of fire controllers exercised	Subjects which could be practised	No. of rds. per fire controller		Total rds. per bn.	
			H.E.	Smoke	H.E.	Smoke
Four section exercises. Smoke shoots.	8	Casualties. Long control. Long carry gas. Safety problems.	2	5	16	40

5. **Ammunition, Parts II and III.**—The nature of the ammunition allotted to Parts II and III may be changed about at the discretion of the platoon commander so that some smoke shoots may be fired in Part II and some area shoots in Part III, but every fire controller exercised should be given one area shoot and one smoke shoot.

#### 6. Safety precautions at the mortar position :—

- i. At all practices a safety officer will be detailed whose duty it is to see that all mortars are laid safely as regards line and elevation. He will also observe movements of aircraft in the vicinity and, if an aircraft is flying so as to approach the line of fire, he will delay firing until it is clear. (Aircraft flying at over 2,500 feet are safe.)
- ii. In addition to the safety officer, one full rank N.C.O. will be detailed to each mortar. His duty is to see that each bomb is fired with the charge ordered, and that the safety cap is removed before the bomb is placed in the barrel.



A N.C.O. will watch for blinds and immediately report their approximate location to the senior officer present. As mortar range danger areas may also be used for manœuvre purposes by troops, it is of great importance that unlocated blind projectiles do not accumulate.

**7. Procedure for destroying blind projectiles :—**

- i. On no account will mortar personnel make any attempt to destroy blinds.
- ii. **Procedure :—**
  - (a) Mark the blind projectile with a red flag.
  - (b) Report its location to higher authority through the usual channels.

# APPENDIX.—GUIDE FOR CONDUCTING OFFICERS

## Battle-Shooting Practices.

Conducting officers will find it of assistance to have with them, on the range, cards prepared on the following lines :—

### 1. Firing point officer.—

Practice	Range	Order	Signal	Action	Rounds to be fired
Practice 40 Phase I ...	500 yards	“ Load ”— “ 500 ”— “ You will fire —rounds ”— “ Watch your front.”	Butts (1 ring)	Large convertible landscape exposed for 1 min.	5
	500 yards	“ You will fire —rounds ”— “ Watch your front.”	Lever man (1 wave with flag)	2 Figs. 3 exposed once for 35 secs.	3
	500 yards	“ You will fire —rounds ”— “ Watch your front.”	Lever man (2 waves with flag)	2 Figs. 2 for 5 secs.	2
Phase II ...					

## 2. Butts officer.—

The suggested signal for targets to be exposed will be one short ring on the telephone. The targets will appear in any pre-arranged order, e.g. :—

Signal	Target	Exposure	Scoring
First ring.	Convertible landscape.	1 minute.	4, 3, 2, 1.
Second ring.	Fig. 2 on pole.	1st exposure : 10 secs. 2nd exposure : 5 secs.	3 points for each hit.
Third ring.	Walking Fig. 6.	To walk across frontage of 12 yds. : 3 times from R. to L. ; twice from L. to R ; the target will disappear when hit.	3 points for each hit.
Fourth ring.	3 Figs. 3 (disappearing).	Total exposure of 1 minute but each target will disappear when hit.	3 points for each hit, plus 5 points if all targets hit.