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[Entered at Stationers' Hall.]

**THE TERRITORIAL
MACHINE GUNNER.**

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MACHINE GUNNER'S PAGE.

Regt. No.

Name

Address

I am No..... on Gun No.

I joined the Battalion on

I attended my first Gun Drill on

My Gun Commander is :

Rank & Name

Address

The O.C. Section is :

Rank & Name

Address

5th Battalion The East Surrey Regt.

MACHINE GUN SECTION.

Memorandum for guidance of the Section.

By Captain F. V. Longstaff, Commanding the Section. 25.11.09.

(1) Men are expected to pass all the Examinations for First Class Machine Gunners as soon as possible, and to serve in the Section for at least Three Years.

(2) Men can return to duty with their Companies only with the approval of the Commanding Officer of the Battalion.

(3) Men must undertake to attend once a week for training. If prevented any week, to send post card to Officer Commanding Section.

(4) The different subjects to be worked up during the whole year's training are given further on in extracts from Army Forms B 2050 and E 569. These subjects are however liable to alteration at any time by an Army or a Divisional Order.

(5) Both the guns have been horsed so far, when taken out for Field Training. This will still be the usual practice, so that "Man Draught" will only be resorted to in the case of an accident.

(6) Each gun is in charge of a N.-C. Officer, who is responsible at all times to the Officer Commanding the Section for the condition thereof. There is also a Lance-Corporal appointed as Permanent Number One to each gun.

(7) At all parades the senior N.-C. Officer present of each gun, and the permanent No. 1 or the senior Gunner, will wear a white lanyard and police whistle. All signals by Officer Commanding Section must be repeated by gun commanders and not given verbally.

(8) On a man joining the Section he will be given a particular number on one of the guns.

(9) The N.-C. Officers are appointed from the First Class Gunners, and their duties are:

- (a) To keep their gun and all its equipment in good order.
- (b) To assist in the training of the Gunners.
- (c) To take command of a gun in the Field in case of War.

(10) All books and papers issued free are to be returned at once when ordered. Men wishing to borrow any handbook or paper, should apply to the senior N.-C. Officer present.

(11) The Annual Course (Table C) is generally fired at the Ash Ranges, on Whit Monday. Once a Trained Man has fired Table B and qualified, he is excused from firing it again while he is either a First or Second Class Gunner in the Section. (T.F.R. para. 295.)

A.F. B 2050.

Qualification of Machine Gunner on conclusion of Annual Course of Training, to be judged by Machine Gun Officer.

- (a) Firing. (Including gun drill and ammunition supply.)
- (b) Ranging. (Range finding with and without instruments.)
- (c) Mechanism. (Including jams.) See p. 10.
- (d) Care of animals. (To be able to take charge of a gun horse.)
- (e) Signalling. (To send and read semaphore.)
- (f) Fire tactics. (Selection of object and time to fire.)

For each of the above there will be three markings:

Very Good. Good. Fair.

When firing each Practice of the Annual Course, the following facts will be recorded for each Gunner :

- (g) Rounds fired.
- (h) No. of hits.
- (i) Percentage of hits to rounds fired.
- (j) Time required for moving and making fire effective.
- (k) No. of jams.
- (l) Greatest time required to resume fire after a jam.

A.F. E 569.

(Extract from Battalion Annual Musketry Return.)

What special instruction has been given in :

- (a) Range finding.
- (b) Machine gun approach.
- (c) Pack loading.
- (d) Digging machine gun emplacements.
- (e) Indirect and night laying.
- (f) Care of pack animals.
- (g) Semaphore signalling.
- (h) Ammunition supply.
- (i) Fire direction and tactics of machine gun.

TABLE C. (MUSKETRY REGULATIONS, 1909.)
TERRITORIAL MACHINE GUN COURSE (ANNUAL).
PART I.—Elementary.

No.	Description of Practice.	Targets.	Distance in yards.	Rounds per man.	Instructions for conduct of Practice.
1	Grouping and Application	Band $\frac{3}{4}$ in. deep	30	20	Ranging fire, 20 seconds.
2	Traversing	"	30	30	A band 30in. long will be swept with traversing fire in 30 seconds.
3	Traversing and Application	Diagonal band $\frac{3}{4}$ in. deep	30	30	A band 36in. long, sloping about $\frac{1}{2}$, will be swept with traversing fire in 45 seconds.
Total ...				80	

PART II.—*Instructional.*

No.	Description of Practice.	Targets.	Distance in yards.	Rounds per man.	Instructions for conduct of Practice.
5	Grouping and Application	Screen, 3ft. by 10ft.	400	30	Ranging fire, 15 seconds.
6			600		
7	Traversing	Collapsible	400	30	An extended line 20yds. long will be swept with traversing fire in 30 sec. Traversing fire, 30 seconds
8			600		
9	Rapid	Screen, 3ft. by 10ft.	800	30	Fire will be concentrated, 10 seconds.
10	Timed Application	Collapsible	800	30	Fire opened at 800yds. then gun to be moved forward and brought into action at 700 yards. Time required for moving 100 yards and making fire effective, to be noted.
			700		
			Total ...	120	

* Either 5 or 6. † Either 7 or 8.

PART III.—*Fire Direction Practices.*

A few bursts of ranging fire will be delivered at various ranges under direction of Officers, for practice in applying fire. The distances should not be less than 600 yards, and the results of the fire should be signalled from the target position. Collapsible targets should be used, and not more than 200 rounds in all should be expended.

PART IV.—*Field Practices.*

All ammunition remaining in hand should be expended in tactical exercises or problems, in accordance with the principles laid down for field practices fired with the rifle. The firing should not take place at distances less than 600 yards, if range accommodation is available.

SECTION 115.—*Special Instructions for Table C.*

643. Two N.-C. Officers and 12 men per Battalion will be trained in firing the gun, 200 rounds being allotted for the practice of each firer.

644. N.-C. Officers and men who show a high standard of proficiency will not be required to fire through the whole of the elementary and instructional practices, the ammunition saved being fired subsequently in field practices.

645. The standard, in grouping and application practices, will be 75 per cent. of hits on a

3½ in. band at 30 yards, and 50 per cent. of hits on a screen 3 ft. high at 400 yards.

646. Details of the practices may be varied by order of Commanding Officers, according to local range facilities. For the elementary practices, the necessary targets should be placed on a screen measuring 6 ft. square.

647. In traversing practice, fire should be directed at extended lines of figures 3½ in. high; traversing fire will consist of a series of small groups, the gun being slightly traversed between each group. Bands of coloured paper 3½ in. deep should be placed above these lines of figures, and the sights should be elevated so that the bullets will strike these bands. For Practice 3, the band should be sloped at the same or slightly greater angle than the figures.

648. The ordinates (height of the trajectory in feet above line of sight of the Machine Gun) of the trajectories for various ranges at 30 (instead of 200 yards) yards from the muzzle, measured from the feet of the lowest line of figures, should be marked on the edge of the target, so that it may be used also as a long range sighting target.

649. All corrections in Part II. should be made by observation of gun commander with

field-glasses; there will be no signalling from the butts until the end of each practice.

650. It is desirable that all practices in Part II. should be fired from behind cover.

651. Targets should be placed on the face of the stop butt, or in the open if safety conditions permit. Collapsible targets may be "iron falling," or figure targets representing a firing line, machine gun, or other service objective.

NOTE A.—In the above extracts from *Musketry Regulations, 1909*, all the necessary alterations have been made which are authorized for the Territorial Force. Also in para. 648 an explanation of ORDINATES is inserted, which should be read in connection with the Trajectory Tables for the Short Lee-Enfield Rifle in the *Musketry Regulations, 1909, Part I.*

NOTE B.—In the list of books on pages 10—13, a certain number of copies of the books marked thus (§) are issued free from the War Office to each battalion for the use of the instructional staff.

NOTE C.—*Mechanism includes jams, and Gunners should bear in mind that, in Examinations, points will be given for the speed with which fire is resumed after a jam. All N.-C. Officers should encourage the Gunners under them to handle and give verbal detail of the mechanism quickly.*

For further details, reference should be made to the following official books, &c.

INFANTRY TRAINING, 1905. (§)

(Reprinted with Amendments 1908.)
Issued with Army Orders, 1.8.09. 1d.

Machine Guns.

- Para. 167 (A). General characteristics.
- .. 167 (B). The organization and training of infantry machine gun sections.
- .. 167 (C). General principles of the employment of infantry machine guns.
- .. 167 (D). Choice of fire positions.
- .. 167 (E). Machine guns in attack.
- .. 167 (F). Machine guns in defence.

MAXIM AND SMALL ARMS, 1909.

An octavo pamphlet, drab paper cover, compiled in the F.A. and S.A. Branch, Ordnance College. 3d.

- Page 31. Stripping .303in. Maxim.
- .. 33. Replacement of defective parts of the lock.
- .. 34. Assembling .303in. Maxim gun. (Also examining the lock without using gauges.)
- .. 36. Stoppages, or jams.

HANDBOOK FOR THE .303 MAXIM GUN, 1907. (§)

Pink cloth cover, 6in. by 9½in. 1s.

Besides the mechanism, this contains the drill and plates of over a dozen mountings and carriages.

MUSKETRY REGULATIONS. PART I. 1909. (§)

6d.

Chapter II.

Pages 36—39. Ammunition, allowance of ammunition, defective ammunition.

Chapter III.

The theory of rifle fire and its practical application. That is to say, the work done by both the cordite, bullet, and the barrel.

Note.—Length of barrels:

Lee-Enfield2ft. 6¾in.
Short Lee-Enfield2ft. 1in.
Maxim gun2ft. 4½in.

There is practically no difference in the trajectories from the above three barrels, so the trajectory given on pages 47, 48, may be taken for the three.

Chapter V.

Visual training and ranging. Note specially Section 71, Test of range takers, and para. 340.

Chapter VI.

- Para. 371. 30 yards range.
 „ 480. To guard against accidents.
 Pages 162—166. Machine guns.

FIELD SERVICE REGULATIONS. PART I. 1909. (§)

1s.

Operations.

Chapters I. The fighting troops and their characteristics (para. 7, Machine guns); II. Inter-communication and orders; III. Movements by land and sea; IV. Quarters; V. Protection; VI. Information; VII. The battle; VIII. Siege operations; IX. Night operations; X. Warfare in uncivilized countries, Convoys; XI. Ammunition supply. See also in the Index.

TRAINING & MANŒUVRE REGULATIONS. 1909. (§)

4d.

Pages 30—34, for the war game; pages 72—77, peace manœuvres.

TRAINING MANUAL—SIGNALLING. 1907. 6d.

Pages 25—61, for semaphore; pages 133—140, for certain signs and figures; pages 177—183, for signalling between the Navy and Army; pages 234, 235, annual tests of skill; page 218 for test groups.

RANGE FINDING INSTRUMENTS.

Each Battalion has one set of Mekometers, which is a “Two Man” range finder. Handbook, 1904. 6d.

The Marindin Range Finder has been tried in the Infantry. It is a “One Man” fixed base instrument. Handbook, 1908. 3d.

There are also other instruments which have been purchased by Officers. The Barr and Stroud, “One Man” and fixed base. The Topometer by Sinclair, “One Man” and movable base.

REGULATIONS FOR THE EQUIPMENT OF THE ARMY. PART 3.

Territorial Force. 1909.

Blue paper cover, 6d.

This contains every information in regard to lists of guns, mountings, spare parts, painting, repairs, harness, equipment, and maintenance.

REGULATIONS FOR THE TERRITORIAL FORCE.

1909. Maroon paper cover. 9d.

ACTIVE SERVICE POCKET BOOK. 3rd Ed. 4s.

Published by W. Clowes & Sons. Green cloth.

- Part VII. Horsemastership.
- „ VIII. Transport.
- „ X. Camp cooking.
- „ XII. Field engineering.
- „ XIII. First aid.

JOURNAL OF THE ROYAL UNITED SERVICE.

INSTITUTION.

January, 1910. Pages 34—65.

Machine Gun Tactics, by Captain R. V. K. Applin, D.S.O., 14th Hussars.

SECTION AND GUN COMMANDERS.

When reading Military Books, one valuable property is frequently overlooked. This is the "Suggestive" which causes the brain to become more than usually active along certain lines of thought. The following books are most valuable for the above purpose :

ELEMENTARY MILITARY TRAINING.

Lt.-Col. A. W. A. Pollock. 4s.

THE TACTICS OF HOME DEFENCE.

Col. C. E. Callwell, C.B. 3s. 6d.

Chapter V. On the study of ground and of topographical features in the United Kingdom :

Types of fences in winter. Post and rails. Simple quickset hedge. Examples of bank and ditch and hedge in combination. Effect of foliage on fences. Tactical aspect of hedges in summer time which cannot be seen through. Various other types of fence. Hedges which are more or less transparent from close by, are opaque from a distance. Effect of corn before the harvest. Importance of corps drawn from cities realising winter conditions of the landscape. Our fenced roads and lanes. Importance of gaps when a fence screens lateral movements. Fences with reference to the lay of the ground. Minor convexities of surface. Fences often very inconveniently situated. Difficulty of detecting this from a distance. Closeness of country, in its military sense, depends largely upon whether the fields can be seen into or not. Question of direction of fences. Colour of fields. Effect of the atmosphere.

The details given on pages 10 to 14 out of the different books, should be read over in conjunction with the list of the qualifications (a) to (f) on page 3, and when in doubt how to read anything, imagine you are mobilized and fighting the enemy with your maxim gun, and omit all you will not use for action.

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