Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

ACC

100001120|3448

ME/22

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

10000|120|3448 ME/22

Organisation (Sti) Training

Jan. - June 1946

6083
6243

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

5ª

M.E/22(66)

TRANSLATION of a Memorandum from Mobilization Section

Mobilization Section/II

Rome, 19 July 1946. (W.M.) 15

MEMO relative to letter L.F.S.C., A.C. (MEIA) M.E./22/56 - 29/6/1946

1.- From the examination of the list enclosed to letter in question, we notice:

1) - Some trades are shown which cannot be called such, e.g. "militari truppa", "servizi generali"; and other trades of doubtful name, e.g. "capi squadra", "conducenti".

2) - The T.E.s are not exact. In fact, they should be - as also pointed out by M.M.I.A. - the sum of the columns "in forza" and "deficienze", and ought to be the same for all divisions (for each trade and in total). On the contrary:
- for one trade, for example "armaioli", which with the old T.E. is 66 and with the new 46 (see enclosure), the following T.E. is laid down in the table: 18 for the "Cremona", 4 for the "Mantova", the "Legnano", the "Folgore" and 8 for the "Friuli";
- with regard to the totals, the number of tradesmen amounts to 208 for the "Cremona", 195 for the "Mantova", 166 for the "Legnano", 146 for the "Friuli", and 189 for the "Folgore";
figures far less than that laid down for an infantry division.

3) - Trades are not mentioned, even of real importance, such as "automobilisti", "marconisti", "motociclisti"; and therefore we cannot have a complete idea of the deficiency of tradesmen in the divisions.

6243

II.- From comparison of the attached list with the periodical returns (list "C") of the divisions, we notice:

1) - The denominations of trades are not uniform, therefore it is not possible to make a comparison in some cases. The divisions, however, in their periodical returns, observe, as a rule, the regulations in force (circ. S.M. - Uff. Ord. e Mob. n.16000/Mob. of 20/5/45).

2) - The differences are great, both for single trades and for the totals. They have been noted in pencil on the list (at the side of each trade and below the totals).

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Against an actual deficiency, reported by M.M.I.A., of 395 men, there is one of 1079, reported by the divisions. A deficiency which is increased to 5730 if those for drivers and other trades not mentioned in the list are added.

6242

R.A.G.

Declassified E.O. 12065 Section 3-402/NNBC NO. 785020

22

RECEIVED 26 JUL 1946

RCME M.M.I.A. 10/26 SIGNALS

LROF V MEAV SRL 262224

FROM E M E 1 BLU 251630 B

TO LT COL BLUNT REME M M I A ROME

QSN GR -- ET

1/ EME/52 (.) U/C (.)

LEATHER FRAME COMPLETED BY ARSENAL (.)

PLEASE GIVE DISPOSAL INSTRUCTIONS TO THIS OFFICE

ET

SENT X004 SGW 1230/26 B 2 (K)

RCD AT 261230 GSE " K

Request

See 64 27/6/46

Ref 6241

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

64

E.E.I.A.

1 ELU

6 ELU

ELU/22/64

UNCLASSIFIED

FOR AMIE (.) REQUEST FRAME MENTIONED IN YOUR EEE 94 OF 25 1030 B BE TRANSFERRED TO EEE 6 ELU TO AWAIT COLLECTION

ROUTINE
E.E.I.A.

A. BLUNT, Lt. Col.

6240

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

(62)

SUBJECT : Training - Armourers and Gun Fitters.

Land Forces Sub Comm. A.C.
(M.M.I.A.) R O M E.
MM/22/62
13 July 46

Ministry of War

It is understood that Internal Security Divisions and Independent Regiments are being equipped shortly with British small arms and also some artillery.

May we please be advised of the courses you propose to hold to instruct the above types of personnel of these units in the inspection and repair of these weapons. A preliminary estimate of the number of personnel to be trained suggests that courses for some 100 personnel may be needed in the first place.

AB

A.BLUNT, Lt. Col.,
Assistant Director of Mechanical Engineering,
M.M.I.A.

Copy to : G (Trg)
Q
DADME 12 ELU.

€238

AB/AW

Rec'd 15th July

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

61

SUBJECT: Staff Equipment Lists - ITALIAN Interim Army

LAND FORCES SUB COM, A.C. (MMIA)
(489081 Ext 401) SD/109/1
7 Jun 46

TO : GENERAL HEADQUARTERS (five copies)

Ref conversation Lt Col SOUTHBY - Maj INGLIS.

1. At Appx 'A' hereto is a list of serial numbers from Staff Equipment lists forwarded under cover of this HQ SD/109/1 dtd. 10 May 46. These are the serial numbers of all tools urgently required for use on the mechanics courses.

TO HE 22

A C Cunningham
Major General,
M. M. I. A.

MW/aa

Copy to : 12 BRITISH LIAISON UNIT

Internal: G (Trg)
'Q'
EME

Lee 64

6203

Regd. 11 June

Appendix 'A' to MMIA letter
SD/109/1 of 7 Jun 46

LIST OF SERIAL NOs OF TOOLS REQUIRED URGENTLY FOR CENTRAL MILITARY SCHOOLS

209
211
235
236
238
239
243
244
250
-1
-2
3
255
6
280
317
318
320
408
-9
411
-2
-3
416
474
-5
-6
-7
-8
499
511
-2
515
-9
520
-1
541
560
-1
-2
-3
-4
571
-2
-3
-4
-5

560
-1
-2
588
-9
590
-1
-2
-3
-4
-5
-6
-7
-8
-9
600
-1
-2
-3
609
610
-1
-2
-3
-4
-5
-6
-7
-8
-9
620
-1
-2
-3
-4
-5
-6
641
-2
-3
645
-6
-7
-8
-9
652
-3

681
688
707
-8
-9
710
-1
-2
-3
-4
724
-5
-5
729
730
-1
-2
-3
-4
-5
-6
-7
-8
-9
740
-1
-2
744
-5
-6
-7
-8
-9
750
-1
-2
-3
-4
-5
-6
-7
-8
761
-2

767
-8
-9
770
-1
-2
-3
778
-9
780
-1
-2
-3
-4
-5
-6
-7
-8
-9
790
-1
-2
-3
-4
-5
-6
-7
-8
-9
800
-1
-2
-3
-4
-5
-6
-7
-8
-9
810
-1
-2
-3
-4
-5
-6
-7
-8

822
-3
-4
-5
-6
-7
-8
-9
830
-1
-2
-3
-4
-5
-6
859
860
-1
864
-5
-6
-7
-8
-9
870
-1
-2
-3
-4
-5
-6
-7
-8
-9
880
-1
-2
-3
-4
-5
-6
-7
-8
695
-6
-7
-8

904
-5
-6
915
-6
-7

620?

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

244 -2 -2 778 -9
250 -3 -3 -9 830
-1 -4 -4 780 -1
-2 -5 -5 -1 -2
3 -6 -6 -2 -3
255 -7 -7 -3 -4
6 -8 724 -4 -5
280 -9 -5 -5 -6
317 600 -6 -6 859
318 -1 729 -7 860
320 -2 730 -8 -1
408 -3 -1 -9 864
-9 609 -2 790 -5
411 610 -3 -1 -6
-2 -1 -4 -2 -7
-3 -2 -5 -3 -8
418 -3 -6 -4 -9
474 -4 -7 -5 870
-5 -5 -8 -6 -1
-6 -6 -9 -7 -2
-7 -7 740 -8 -3
-8 -8 -1 -9 -4
499 -9 -2 800 -5
511 620 744 -1 -6
-2 -1 -5 -2 -7
516 -2 -6 -3 -8
-9 -3 -7 -4 -9
520 -4 -8 -5 880
-1 -5 -9 -6 -1
541 -6 750 -7 -2
560 641 -1 -8 -3
-1 -2 -2 -9 -4
-2 -3 -3 810 -5
-3 645 -4 -1 -6
-4 -6 -5 -2 -7
571 -7 -6 -3 -8
-2 -8 -7 -4 895
-3 -9 -8 -5 -6
-4 652 761 -6 -7
-5 -3 -2 -7 -8
-6 -4 -3 -8 -9
-7 -5 -4 -9 901
-8 658 -5 820 -2
-9 -9 -6 -1 -3

623

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Opene (60)

SUBJECT :- Training of Armament Artificer REME Ref:- PEME/61/2

TO:- AIME MMIA Land Forces Sub Commission A.C.

FROM:- D.A.D.M.E.
Rome Area Allied Command.

To:-	For:-
O.C., 638 L of C Wksp. REME.	Information and Retention
O.C., 719 L of C Wksp. REME.	Action
O.C., 613 L of C Wksp. REME.	Perusal and Return
O.C., 751 Service Station REME.	Remarks or Recommendations
O.C., 5 Sec., 711 L of C Tels W/S REME	Acknowledge
O.C., 687 Light Recovery Section REME	Passed for your information
D.A.D.M.E., 12 B.L.U., for the Italiana Central Military Schools, Cesano, C.M.F.	

DATE:- 4 July 46.

Major.
D.A.D.M.E.
Rome Area Allied Command.
(A.G. SORRELL)

RECEIVED
5 JUL 1946

6256

Regd
5 July.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

COPY

GENERAL HEADQUARTERS
CENTRAL MEDITERRANEAN FORCE
REME

FREEDOM 363

ME 1A/2474/3

Subject :- Training of Armament Artificer REME

To :- DDME HQ 3 District
DDME HQ Rear 13 Corps
CI REME Inspectorate
REME 1 Armd Div
DADME RAAC
OC 635 L of C Wksps.

3 July 46

Further to our ME/1A/2474/3 dated 26 Feb 46 and 5 April 46.

1. Courses for training Armament Artificers REME of the following types are now under consideration.

Armament Artificers (Anti Aircraft)
" " (Electrical)
" " (Instruments Anti Aircraft)
" " (Instruments coast Defence)

Application forms for the training of suitable candidates of these types should now be submitted to this Directorate in accordance with the above quoted letters.

A. FLINT, Capt
for Brigadier
Director of Mechanical Engineering.

Copy to :- All GHQ Installations
GHQ 2nd Echelon (Stats)
" " " (Rfts) (2)

6235

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

REME 2-57

REME BRANCH
HQ: 3 British Liaison Unit

ME/PER/37
2 July, 1946.

Subject: Training.

To: A.D.M.E.
Land Forces Sub-Comm, A.C.
M.M.I.A.

57

In reply to your letter ME/22/57 of 27 June I have to report that nothing is known of any men undergoing training of the type mentioned by you.

Training in progress at the centre in VIA OLIVIERI, BAGGIO, is concerned entirely with supplies, baking, butchery etc.

S. & T. this B.L.U. disclaims having sent in any report relating to the training of any men in which R.E.M.E. would be interested. The reference of the report on this centre to S. & T. Branch M.M.I.A. is MF (s) 2 of 6 June 1946.

J. Aldridge
Legd

S/Capt.
(J. Aldridge)
EME: 3 British Liaison Unit.

CMF.

6234

SUBJECT : Training

Land Forces Sub Comm. A.C.
(A.F.I.A.) R O M E.
AS/42/56

29 June 46

Direzione Generale Artiglieria
e Motorizzazione.

Some information has been received as to the approximate deficiencies of military tradesmen in the Infantry Divisions and it is thought that this may be of assistance to you when requesting from the appropriate authorities the number of recruits etc, to be allotted for training in the future.

This information is therefore forwarded as received; although there is some lack of uniformity between Divisions in the description of the tradesmen it is thought that this will give a total figure, which can be divided into specific trades after you have confirmed the details with the Divisions.

The War Establishment of each trade is not shown for the sake of simplicity, but it can be found by the addition of the columns 'Held and Defic'. The figures headed 'Defic' show the present deficiencies of military personnel: after the 1942 and 1943 classes have been released the figures in those columns should be added to those under the column headed 'Defic'; and the figures in the column headed 'Held' should be reduced accordingly.

The personnel situation in L.S.'s is understood to be disturbing, and it is suggested that they be given some priority in the near future.

A Blunt
Lt. Col.
6235

Copy to: G (Trg.)
Spares

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

it is thought that this may be of assistance to you when reviewing from the appropriate authorities the number of recruits etc. to be allotted for training in the future.

This information is therefore forwarded as received; although there is some lack of uniformity between Divisions in the description of the tradesmen it is thought that this will give a total figure, which can be divided into specific trades after you have confirmed the details with the Divisions.

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The personnel situation in LAD's is understood to be distressing, and it is suggested that they be given some priority in the near future.

A Blunt

Lt. Col.

6288

Copy to: G (Trg.)
Spares

Sec 66

File

Recd 2nd July

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TRADES.	CREMONA DIV.,				MANTOVA DIV.,				LECNANO DIV.,				FRIULI DIV.,				FOLG	
	HELD	DEFIC.	1922 CLASS	1923 CLASS	HELD	DEFIC	1922 CLASS	1923 CLASS	HELD	DEFIC	1922 CLASS	1923 CLASS	HELD	DEFIC	1922 CLASS	1923 CLASS	HELD	DEFIC
Armourers.	9.	9	3	2	4	-	-	1	1	3	1	-	8	-	2	6.	4	-
Chief Foremen.	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Storemen.	15	8	4	3	-	-	-	-	12	14	4	5	11	1	5	3	9	5
Instrument. Mech	-	2	-	-	-	2	-	-	-	2	-	-	-	-	-	-	1	1
Fitter-Mech's.	7	18	5	1	20	16	1	6	-	-	-	-	-	-	-	-	20	9
W/T Mechanics	-	1	-	-	-	-	-	-	4	3	2	1	-	1	-	-	-	3
Blacksmiths	3	-	1	1	2	2	-	1	1	3	1	-	3	1	1	-	2	-
Carpenters.	1	1	1	-	2	2	1	1	1	3	1	-	1	3	1	-	3	1
Body Makers	-	2	-	-	-	2	-	-	-	3	-	-	-	-	-	-	2	-
Vehicle Mechs.	62.	-	16	17	38	22	9	11	17	36	5	5	9	-	5	2	17	8
Electricians	9	6	3	2	7	11	3	3	6	12	2	-	4	8	1	3	7.	11.
Fitters.	7	-	-	1	-	-	-	-	9	16	4	-	-	-	-	-	-	-
Sheet Metal Work	-	2	-	-	-	4	-	-	-	-	-	-	-	1	-	-	3	1
Signal Mech.,	-	3	-	-	1	2	-	-	-	-	-	-	-	-	-	-	-	-
Turners	3	-	2	1	2	1	1	1	1	2	1	-	2	1	1	1	-	-
Vechicle. Fitters	24	1	7	11	12	23	3	5	-	-	-	-	32	-	16	8	22	4
Welders	5	4	2	2	4	5	1	1	3	6	1	2	2	1	2	-	6	3
Chief Foremen(Fitters)	-	-	-	-	5	9	-	-	-	-	-	-	-	-	-	-	3	4
Foremen	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	5	1
Foremen Mechs	-	-	-	-	2	5	-	-	-	-	-	-	-	-	-	-	-	-
Foremen W/T "	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-
Painters	-	-	-	-	2	-	-	1	1	1	-	1	1	-	-	1	2	-
Signa									-	-	-	-						
Chief Mechs.	-	-	-	-	-	-	-	-	8	8	-	-	6	10	-	-	-	-
Chief Accnts	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
Chief Armorer	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-
Tinsmiths	-	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	-
Driver Mechs	-	-	-	-	-	-	-	-	36	19	17	12	-	-	-	-	2	-
Clerks	-	-	-	-	-	-	-	-	5	4	3	1	-	-	-	-	-	-
Drivers	-	-	-	-	-	-	-	-	2	-	-	2.	32	9	15	4	-	-
D. Rs	-	-	-	-	-	-	-	-	3	3	2	1	-	-	-	-	-	-
General Duties	-	-	-	-	-	-	-	-	10	6	5	1	-	-	-	-	-	-
Volcaniser	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-	-
W/T Fitter	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	1	-
N.C.O Tradesmen	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-
W.O. Mech.,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-
Sgt Mech.,	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	2	-
Sgt Veh Mech.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

OVA DIV.,			LEGNANO DIV.,				FRIULI DIV.,				FOLGORE DIV.,				TOTAL Required to replace DEFICS	TOTAL Required to Replace 1922 CLASS	TOTAL Required to replace 1923 CLASS
FIC	1922 CLASS	1523 CLASS	HELD	DEFIC	1522 CLASS	1523 CLASS	HELD	DEFIC	1522 CLASS	1523 CLASS	HELD	DEFIC	1522 CLASS	1523 CLASS			
-	-	1	1	3	1	-	8	-	2	6.	4	—	1	2	12	7	11
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	12	14	4	5	11	1	5	3	9	5	1	6	28	1	17
-	-	-	-	2	-	-	-	-	-	-	1	1	1	-	7		-
2	-	-	-	2	-	-	-	-	-	-	20	9	8	5	43	14	7
16	1	6	-	-	-	-	-	-	-	-	-	3	-	-	8	2	1
-	-	-	4	3	2	1	-	1	-	-	2	-	1	1	6	4	3
2	-	1	1	3	1	-	3	1	1	-	3	1	2	1	10	6	2.
2	1	1	1	3	1	-	1	3	1	-	2	-	1	-	7	1	-
2	-	-	-	5	-	-	-	-	-	-	17	8	6	7	65	41	42
22	9	11	17	36	5	5	9	-	5	2	7.	11.	3.	2.	48	12	10
11	3	3	6	12	2	-	4	8	1	3	-	-	-	-	16	4	1
-	-	-	9	16	4	-	-	-	-	-	3	1	1	1	8	1	1
4	-	-	-	-	-	-	-	1	-	-	-	-	-	-	5	-	-
2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	5	3.
1	1	1	1	2	1	-	2	1	1	1	-	-	-	-	28	33	29
23	8	5	-	-	-	-	32	-	16	8	22	4	7	5	19	8	6
6	1	1	3	6	1	2	2	1	2	-	6	3	2	1	13	1	1
9	-	-	-	-	-	-	-	-	-	-	3	4	1	1	4	-	-
3	-	-	-	-	-	-	-	-	-	-	5	1	-	-	6	-	-
5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-
1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	2	3
-	-	1	1	1	-	1	1	-	-	-	2	-	2	-			
-	-	-	-	-	-	-	6	10	-	-	-	-	-	-	18	-	-
-	-	-	8	8	-	-	-	-	-	-	-	-	-	-	1	-	-
-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-
-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	2	-	-
-	-	-	-	2	-	-	-	-	-	-	2	-	1	1	19	18	13
-	-	-	36	19	17	12	-	-	-	-	-	-	-	-	4	3	1
-	-	-	5	4	3	1	-	-	-	-	-	-	-	-	9	15	6
-	-	-	2	-	-	2.	32	9	15	4	-	-	-	-	3	2	1
-	-	-	3	3	2	1	-	-	-	-	-	-	-	-	6	5	1
-	-	-	10	6	5	-	-	-	-	-	-	-	-	-	2	-	-
-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	3	1	-
-	-	-	-	-	-	-	-	3	-	-	1	-	1	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	1	-
-	-	-	-	-	-	-	-	-	-	-	2	-	1	-	-	-	-
-	-	-	-	-	-	-	-	-	-	-	6	-	2	-	-	2	-

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

(5)

Subject :- Training.

(59)

Land Forces Sub Comd. A.C.
(M.M.I.A.) R O M E.
MM/22/57

29 June 45

To :- MMB., 3 MLU.

1. It is reported by one 3 MLU Unit at Advanced Training Centre for Subsistence Recruits Via Civvies (Naples)

there are under training :

12 mechanics
12 blacksmiths
12 carpenters
36 electricians
14 motor mechanics
4 refrigerator engineers
254 various services.

2. Please investigate and report :

(a) the composition of those listed as " various services ".

(b) the type of training given in each trade and their suitability for posting wastage of Infantry Divisions or other wastage.

(c) what wages surplus this training is arranged.

AB/sgt
Copy to :- MMB, 12 MLU.

AB 62 [illegible]
Lt. Col. AMS.

Reply 29 June

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

55

SUBJECT : Training - REME.

LAND FORCES SUB COM, AC(MMLA)

TEL.EXT. 476 TRG/62

4 Jun 46

TO : G.H.Q. - for G(Trg)

1. It is understood that there is a British School of Mechanics at PADUA.

2. ADME of this HQ (Lieut-Col A. BLUNT REME) would like to visit this School for one day, approx 20 Jun 46, with a view to obtaining information about the General layout of the School, latest methods of instruction, and details of Courses, which would be of great assistance in the mechanical training of the Italian Army.

3. May approval please be given for this visit?
If arrangements for the visit should be made direct between this HQ and the School could the following information be supplied.-

(a) Postal address and telephone number

(b) Exact location.

Major-General
M. M. I. A.

TPL/mm

Interpal. EME

Copy to : TRG/26/3.

62.13

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

(54)

TRANSLATION

FROM: M. of W. REF: 6024/2CA
034727

TO : M.M.I.A. DATE: 29/5/46

SUBJECT: M.T. Repair Training Centres.

(42)

In reply to letter ME/22 dated 11 inst. we would inform you:

A)- The repair service officer's training course, refferred to in the proposal made in letter 3772/2 CA dated 27/3/46, has not yet commenced due to the following reasons:

- unavailability of junior M.T. officers to attend the course;
- unavailability of junior officers belonging to the various arms having an engineers certificate.-

Agreeing with your Mission's proposal, the writer has made very careful investigation from which appears the existence of a hundred officers, serving, with the a/m certificate, who are, however already employed on duties for which the engineer's certificate is essential;

The general preparation stage of the M.T. School which has not, due to known delay in preparing the barracks, reached the level wished for in order to meet with the necessary good organisation, an officer's course.

We would inform you that the school was warned of this Ministry's intention concerning the formation of the a/m course.

A copy of the general sylabus, of which youre

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Mission is in possession (attached to the letter 3772/2 CA dated 27/3/46) was sent to the school.
It is this Ministry's intent~~ions~~ to establish the course as soon as possible, as soon as the difficulties pointed out in para A) have been overcome administrative orders will be issued regarding the commencement of the course

B)- The M.T. School Commander has once more assured us that he has not ordered any transfer of officers or personnel from the Via Pinturicchio school to the Cecchignola HQ. Only officers who have no duties to carry out at present at the Via Pinturicchio school have been employed at the Cecchignola HQ.
They were entrusted only to drawing up, detailed, programmes which this Ministry has for same time entrusted to the M.T. school and which your Mission requested in para 5) of letter M.E./22 dated 11 inst.

C)- Letter M.E./22/40 dated 18 April states fully: the arrangements made with Lt. Col. Morani. Some proposals for alterations, referring exclusively to the numerical movement of personnel from the Via Pinturicchio school to the Duca D'Aosta Industrial school, they were submitted to Maj. Twine by Col. Nigri and Lt. Col. Morani. These proposals tended to increase the quota of 30 men, laid down in the a/m letter, of the industrial school, decreasing by the some number of men the 170 laid down for the Via Pinturicchio school.
The M.T. school commander has confermed that he is acting In liaison with the DAME of the 12 BLU.

D)- The detailed drawing up of the programmes requested by your Mission in letter ME/22 dated 23 February has been entrusted for some time to the M.T. school H.Q. The general sylabus drawn up by this Ministry since Oct. 1945 which was followed for the tradesmen course carried out at the Via Pinturicchio school which has now terminated, with success, during the second fortnight of April 1946 was handed over to them,
We have therefore asked the school to hand these programmes over direct to your Mission concerning this matter we would point out out that Col. Morani has ordered, as stated in para B), officers, at present without employment, at Via Pinturicchio to keep in close touch with the Cecchignola head training office. Most likely, this work organisation, has not met with the approval of personnel ordered to this task, who may have supplied, intentionally, false

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

information.

In accordance with statements made by Col. Nigri, we assure you that no transfer of officers from Via Pinturicchio to Cecchignola has been effected.

These transfers will be effectted, where necessity arises, keeping the DAME of the 12 BLU informed.

E)- We are not very satisfied will the condition of the premises to be used as billets o~~f~~ the relative services at the Regina Margherita Barracks in Via Legnano and, in order to eliminate some of the faults, the Rome Mil. Terr. HQ. has been approached.

Oak.

Sgd. PROPERZI
Gen.

URGENTE

Ministero della Guerra
Direzione Gen. Artiglieria
e Motorizzazione

Divisione Sez. 2ª
Prot. N° 6024/2. CA Allegati
23727

Roma, 29 MAG 1946

REALE (34)

Alla LAND FORCES SUB COMMISSION
A.C. (MMIA) Via Veneto
ROMA

Risposta al Foglio del
Div. Sez. N.

OGGETTO : Centri addestramenti riparazione motorizzazione.-

e, per conoscenza: ALLO S.M.R.E.-Uff.Op.e Add.-Sec.Add. SEDE

In risposta al foglio ME/22 dell'11 corrente si comunica :

A)- Il corso per ufficiali da adibirsi al servizio delle riparazioni, di cui alla proposta formulata col foglio 3772/2 CA del 27 marzo u.s. non ha potuto ancora entrare nella sua fase di realizzazione per i seguenti motivi :

- indisponibilità di ufficiali inferiori del corpo automobilistico da comandare per le frequenze del corso;
- indisponibilità di ufficiali inferiori delle varie armi aventi il titolo di ingegnere.-Concordando con la proposta di codesta Missione, la scrivente ha fatto fare minuziose ricerche dalle quali è emersa l'esistenza di un centinaio di ufficiali,in servizio, col titolo indicato i quali sono però già impiegati in mansioni per le quali è indispensabile la lauera in ingegneria;
- per la fase di assestamento generale della scuola della Motorizzazione la quale non ha, per noti ritardi nell'approntamento delle caserme,raggiunto quel livello desiderabile atto ad affrontare,con la necessaria serenità,un corso frequentato da ufficiali.-

In proposito si comunica che la scuola fu avvertita dell'intendimento di questo Ministero circa l'istituzione del corso in argomento.

6226

Ad essa fu anche inviata copia del programma di massima di cui codesta Missione è in possesso (allegato alla lettera 3772/ 2 C.A. del 27 marzo.)-

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

OGGETTO : Centri addestramenti riparazione motorizzazione.-

e, per conoscenza: ALLO S.M.R.E.-Uff.Op.e Add.-Sez.Add. S E D E

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In proposito si comunica che la scuola fu avvertita dell'intendimento di questo Ministero circa l'istituzione del corso in argomento.

6226

Ad essa fu anche inviata copia del programma di massima di cui codesta Missione è in possesso (allegato alla lettera 3772/ 2 C.A. del 27 marzo.)-

Urgent letter.
Priority 1.
Att Shockridge Capt
1 June 46.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

E' intendimento di questo Ministero di indire al più presto il corso e per il quale si riserva di impartire l'ordine esecutivo circa l'inizio non appena saranno risolte le difficoltà prospettate nella lettera A).-

B)Il Comandante della scuola della Motorizzazione ha dato ancora una volta assicurazione di non aver disposto alcun trasferimento di ufficiali e personale della scuola di Via Pinturicchio alla sede della Cecchignola.- Sono stati impiegati soltanto presso la sede della Cecchignola degli ufficiali i quali non avevano attualmente alcuna mansione da compiere presso la scuola di Via Pinturicchio.- Ad essi è stato affidato unicamente il lavoro di compilazione, particolareggiato, di quei programmi che questo Ministero ha da tempo affidato alla scuola della motorizzazione e che codesta Missione ha richiesto al n)5 del foglio ME/22 dell'11 corrente.-

C)La lettera ME/22/40 del 18 aprile rispecchia fedelmente gli accordi preso col Ten.Col. Morani.- Alcune proposte di varianti, esclusivamente riferite allo spostamento numerico di personale dalla scuola di via Pinturicchio alla scuola Industriale Duca D'Aosta, furono sottoposte al Maggiore Twine dal Col. Nigri e dal Ten.Col. Morani. Esse tendevano ad aumentare l'aliquota di 30 elementi, fissata nel foglio suddetto, alla scuola industriale, diminuendo di altrettanta unità quella di 170 stabilità per la scuola di Via Pinturicchio.

- Il Comandante della Scuola della Motorizzazione ha confermato di agire in collegamento con il DANE del 12 BLU.

D)La stesura particolare dei programmi richiesti da codesta Missione col foglio ME/22 del 23 febbraio è stata da tempo affidata al Comando scuola della Motorizzazione.- Ad esso furono consegnati i programmi di massima compilati da questo Ministero fin dall'ottobre 1945, che furono seguiti per l'addestramento del corso di personale specializzato svolto presso la scuola di Via Pinturicchio che ha avuto termine, con esito favorevole, nella seconda quindicina di

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

volta assicurazione di non aver disposto alcun trasferimento di ufficiali e personale della scuola di Via Pinturicchio alla sede della Cecchignola.- Sono stati impiegati soltanto presso la sede della Cecchignola degli ufficiali i quali non avevano attualmente alcuna mansione da compiere presso la scuola di Via Pinturicchio.- Ad essi è stato affidato unicamente il lavoro di compilazione, particolareggiato, di quei programmi che questo Ministero ha da tempo affidato alla scuola della motorizzazione e che codesta Missione ha richiesto al n)5 del foglio ME/22 dell'1 corrente.-

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Declassified E.O. 12065 Section 3-402/NNDC No. 785020

Si è sollecitato pertanto la diretta consegna di tali programmi a codesta Missione da parte della scuola.- In merito si fa presente che per questo lavoro il Col. Nigri ha ordinato, come detto alla lettera B), a degli ufficiali, attualmente senza impiego, di Via Pinturicchio di mettersi in stretto collegamento con il capo ufficio addestramento della scuola alla Cecchignola.- Probabilmente, questa organizzazione di lavoro, non ha incontrato il gradimento del personale preposto a tale incarico, che potrebbe aver fornito, intenzionalmente, notizie artefatte.-

In base alle dichiarazioni date dal Col.Nigri, si assicura che non è stato affettuato alcun trasferimento di ufficiali di Via Pinturicchio alla Cecchignola.-

Tali trasferimenti saranno effettuati, ove se ne manifestasse la necessità, tenendone informato il DAME del 12 BLU.-

E)- Non si è molto soddisfatti dello stato dei locali adibiti ad alloggio e relativi servizi presso la Caserma Regina Margherita in Via Legnano e, per eliminare alcune deficienze, è stato interessato il Comando Militare Territoriale di Roma.-

IL DIRETTORE GENERALE

TR...
N 7
620/20
Data 1/6
1450

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

di lavoro, non ha incontrato il gradimento del personale preposto a tale incarico, che potrebbe aver fornito, intenzionalmente, notizie artefatte.-

In base alle dichiarazioni date dal Col.Nigri, si assicura che non è stato affettuato alcun trasferimento di ufficiali di Via Pinturicchio alla Cecchignola.-

Tali trasferimenti saranno effettuati, ove se ne manifestasse la necessità, tenendone informato il DAME del 12 BLU.-

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IL DIRETTORE GENERALE

TRASM.

IN { 62040
Data 1/6

OUT { Ore 1430
Data 3/6

Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

SUBJECT:- Trai[illegible]g.

10 British [illegible]aison Unit
TORRE DEL GRECO
Tel; 55802 NAPLES
3 REME

18 May 46

Land Forces Sub Com AC
MMIA ROME (ADME)

Ref your ME/22 dated the 20th March.

The attached letter has been received in answer from Territorial HQ NAPLES.

WSR/why

J. J. Rodd Capt
for Lt Col
GS

RECEIVED 21 MAY 46 (G.S.)

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

COPY

Subject:- Training.

Territorial HQ, Naples
3/2257/Op

20 Apr 46

10 BLU

Reference your 3 REME dated 26 Mar 46, of which copy was received on 17 Apr 46.

1. The number of men who will be able - after a certain period of training - to take up duty as specialists is being ascertained, following your request with letter 4 G dated 9 Apr 46.

2. Such number - which is foreseen to be very small - will be communicated to you as soon as available.

3. Up to now we have provided to replenish the lack of specialists, as far as possible, with one of the following methods :

- Assignment of specialists taken from disbanded units.
- Recuperation of specialists from absent strength.
- Employment, already authorized, of civilian specialists.

(Sgd) V. DONATO, Lt-Col
Vice-Chief of Staff

bb

6242

Unclassified E.O. 12065 Section 3-402/NNDC NO. 785020

A.D.M.E
M.M.I.A.

Herewith please copy of "Free" showing Italian Educational System.

Arthur V Gaunie

Major T.F.M.E.
A.F.S.B.

12 B.L.U.
Central

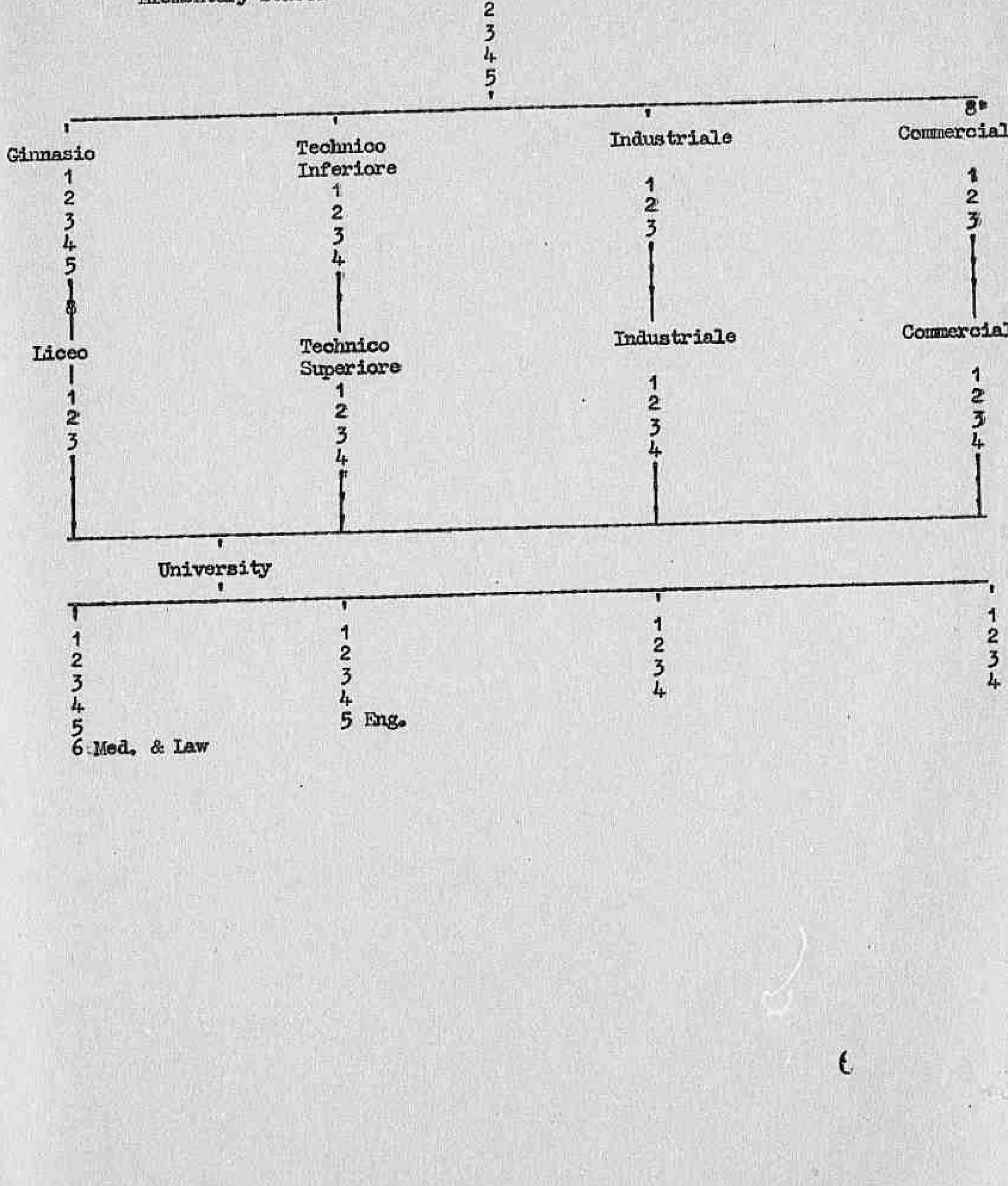
Sir
Is the attached supply to personal request?

Noted
15/5

Seen after 1916

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

ME/22



SUBJECT: Motorisation Repair Training Centre.

File Copy 48

Land Forces Sub Comm.A.C.
(M.M.I.A.) R O M E
ME/22/48
11 May 1946

Ministry of War

1. With reference to your letter 3773/2CA/011145 of 27 March 46 and this office letter ME/22/40 of 18 April 1946.

2. It is understood that the officers' course has not yet begun; that the date of commencement is not yet known and that the School concerned was not warned in good time that such a course was to be held.

3. It is understood that certain officers and instructors have been trasferred from the Centro Studi ot the School at Via Pintoricchio to Cecchignola without consulting D.A.D.M.E., 12 B.L.U.

This is contrary to the agreement noted in paragraph 3 of our letter quoted above.

4. A written assurance is required that,
(a) letter ME/22/40 of 18 April is a true record of the conversation with Lt.Col. Morani,
(b) the course of instruction for officers will begin at an early date,
(c) the Commandant of the School of Motorisation will act in closer liaison with D.A.D.M.E., 12 B.L.U.

5. It is requested for the third time that the syllabi requested in our letter ME/22 of 23 February be sent to this office.

6. In conclusion, are you satisfied that the barrack accommodation for the students attanding the Industrial Schools is of a sufficiently good standard?

See Folder 54

WB

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

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6. In conclusion, are you satisfied that the barrack accommodation for the students attanding the Industrial Schools is of a sufficiently good standard?

Sent Oct 54

AB

Lt. Col.
A.D.M.E.
M.M.I.A.

AB/lv

Copy to: G (Trg)
'Q'
D.A.D.M.E., 12 B.L.U.

Mex 14 May

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

D/L

Ministero della Guerra
DIREZIONE GENERALE ARTIGLIERIA
Motorizzazione

Divisione Tecn.A.C. Sez. 2ª
Prot. N. 25708 /DL Allegati

Roma, 16 MAG 1946 anno

Alla LAND FORCES SUB COMMISSION AC. (MMIA)
= R O M A =

Risposta al f. del 19/4/46
Div. Sez. N° ME/22/41

OGGETTO Addestramento personale per riparazione artiglierie.-
Training personnel for artillery repairs.

Il programma inoltrato con la lettera ME/22 del 22/3/46 coincide col nostro punto di vista.-
The programme forwarded with letter ME/22 of 22.3.46 coincides with our point of view.

Tale programma è stato già diramato agli Enti che dovranno comandare il personale al corso.-
The said programme has already been issued to the Units which must appoint personnel to the course.

p. IL MINISTRO
(P.G.Properzj)

Foglie 24.23

1230
Date 10/5
19
Ministero della Guerra
Div. 7
Sez. 2
Uff. 1730
13/5
Ufficiale Inviato
a/c Churchill Corpt

Sezione
6218
per copia

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

SUBJECT: Training of Artillery Repair Personnel.

Land Forces Sub Comm.A.C.,
(M.M.I.A.) R O M E
ME/22/41
19 April 1946

Direzione Generale
Artiglieria e Motorizzazione,
Ministry of War.

With reference to our letter ME/22 of 22 March.

Can you now please state if the syllabi forwarded therewith are in agreement with your views.

If not may we please be supplied with copies of the syllabi you intend to use for the above training.

Lt. Col.
A.D.M.E.
M.M.I.A.

Copy to: D.A.D.M.E., 12 B.L.U.

Die Zeitung 54

6247

(40)

Subject: Motorisation Repair Training Centre.

Land Forces Sub Comm.A.C.,
(M.M.I.A.) R O M E
MM/AA/40
18 April 1945

Direzione Generale
Artiglieria e Motorizzazione,
Ministry of War.

1. In confirmation of conversation of yesterday and today with Lt. Col. MORANI, we understand that the modifications to the original training plan (confirmed in your letter 4357/2A/04637 of 21 February are as follows. These modifications, mainly caused by difficulties in preparing the new accomodation at C R O C H I C N O L A, are:

(a) to commence the instruction at CROCHI NOLA of approx 300 meccanici di sezione on 1st May, taking from the School at Via Pintoricchio such wall-diagrams and sectioned models, officers and instructors as are essential after strenuous efforts to obtain these elsewhere have been made. This conforms with the original training plan.

(b) to commence at the School at Via Pintoricchio on 15 May courses for:

motoristi
montatori
elettricisti
verificatore di pompe d'iniezione

totalling approx 170 personnel. The instructors and equipment for these courses should be found from that at present with the Centro Studi and the School at Via Pintoricchio

(c) to commence the technical training at the Scuola Industriale "Luce d'Aosta" or "Galileo" on 15 May of:

tornitori
saldatori
falegnami
fabri
lamieristi

totalling approx 30 personnel.

2. In addition, it was agreed that the Commandant of the Scuole di Motorizzazione should consult with D.A.A.A.G. 12 B.L.O.(Major Wilson) before requesting permission to move officers, instructors, or equipment from the Centro Studi or the School at Via Pintoricchio. This is particularly important in view of the officers course starting at the end of April as mentioned in your letter 4357/2A/

Declassified E.O. 12065 Section 3-402/NNDD NO. 785020

in preparing the new accomodation at C E C C H I N O L A, are:

(a) to commence the instruction at CECCHINOLA of approx 300 meccanici di sezione on 15 May, taking from the school at Via Pintoricchio such wall-diagrams and sectioned models, officers and instructors as are essential after strenuous efforts to obtain these elsewhere have been made. This conforms with the original training plan.

(b) to commence at the school at Via Pintoricchio on 15 May courses for:

motoristi
montatori
elettricisti
verificatore di pompe d'iniezione

totalling approx 170 personnel. The instructors and equipment for these courses should be found from that at present with the Centro Studi and the school at Via Pintoricchio

(c) to commence the technical training at the scuole industriale "Luca d'Aosta" or "Galileo" on 15 May of:

tornitori
saldatori
falegnami
fabri
lamieristi

totalling approx 30 personnel.

4. In addition, it was agreed that the Commandant of the Scuola di Motorizzazione should consult with D.A.D.M.E. 12 B.L.U. (Major Thiel) before requesting permission to move officers, instructors, or equipment from the Centro Studi or the School at Via Pintoricchio. This is particularly important in view of the officers course starting at the end of April as mentioned in your letter G/12/20A-01145 of 25 March.

5. May the syllabi requested in our letter MS/22 of 23 February be sent to this office please?

Copy to: G (Rg)
D.A.D.M.E. 12 B.L.U.

Lt.Col.
A.D.M.E.
M.M.I.A.

62

Declassified E.O. 12065 Section 3-402/NNDG No. 785020

Declassified E.O. 12065 Section 3-402/NNDQ NO. 785020

SUBJECT: Training of Officers.

Land Forces Sub Comm.A.C.,
(M.M.I.A.) R O M E
MX/22/37
15th April 1946

Direzione Generale
Artiglieria e Motorizzazione,
Ministry of War.

This office gratefully acknowledges receipt of your letter 3772/20A - 011145 of 27 March together with syllabus for the course of instructions for officers.

It is observed however that it is proposed only to admit junior officers of the Corpo Automobilistico to this course.

There may well be officers in other arms who are engineers and who could attend this course with a view to serving with Repair Units.

It is therefore recommended that, in accordance with paragraph 4 of your letter 2357/20A - 04637 of 21 Feb., you hold at the Centro Studi courses of instruction for officers destined for Repair Units. These courses should be attended by officers of various arms of the service and not exclusively by officers of the Corpo Automobilistico.

Copy to: 'Q'
G (Trg)
D.A.D.S.D., 12 BLU.

Lt. Col.
A.D.M.I.
M.M.I.A.

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

RECD 5128 11 APR 1946

SUBJECT :- Training - Officers.

ME/22

Rome

12 BRITISH LIAISON UNIT
for the
ITALIAN CENTRAL MILITARY SCHOOLS
(Tel : ROME 66318/9)

Ref : AQ/40/5/1380

10 April 1946.

To: A.D.M.E.,
Land Forces Sub Comm AC (MMIA)

Reference your ME/22 of 4 April '46.

Herewith please find translated copy of letter from the Ministry of War, together with syllabi, returned to you as requested in your above quoted letter.

Colonel.
Comd. 12 British Liaison Unit for the
Italian Central Military Schools

AH/raw

Internal.

File.

6214

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Translation

ME/15

33

From M.of W.

To M.M.I.A.

XXXXXXXXXXXXXXX.

Ref. 3772/2 C.A
OIII45.

Date 27/3/46.

Subject Training Courses for Junior Officers of the M.T. Corp to be Posted to M.T. Repair Work hops.

In conformity with communications and verbal agreement we comferm the possibility of being able to commence the a/m training forming an initial course which could:

- commence by the end of the next month of April;
- be attended by junior officers of the M.T. corp to be drawn from transport companies, O.L.C. and repair units, chosing naturally elements for which the training is advisable and necessary;
- be carried out at the former M.T. Study Centre;
- have a quota of twenty pupils;
- have a minimum duration of 4 months.

We enclose copies of the program of the sylabus which is to be given on the course.

DAK

(XXXXXXXXXXXXXX)

illegible.

R 4/4/46

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Translate first page only, please

Roma, 2 MAR 1946

Ministero della Guerra
DIREZIONE GENERALE
DIREZIONE GENERALE ARTIGLIERIA E MOTORIZZAZIONE
Div. corpo automobilistico
Divisione Sez. 2°
Prot. N° 3772/2 CA Allegati 1
011145

Al LA LAND FORCES SUB COMMISSION
A.C. (MMIA) Via Veneto
= R O M A =

Risposta al Foglio del 4 marzo c.a.
Div. Sez. 1 ME/22

OGGETTO Corso di addestramento per ufficiali inferiori del corpo automobilistico da adibirsi alle officine di riparazione automobilistiche.

e, per conoscenza:
ALLO STATO MAGGIORE R.ESERCITO
Ufficio Operazioni e addestramento -Sez.Add. = S E D E =

****

In conformità delle comunicazioni ed accordi verbali si conferma la possibilità di poter iniziare l'addestramento in oggetto istituendo un primo corso il quale potrebbe:

- iniziare entro la fine del prossimo mese di aprile;
- essere frequentato da ufficiali inferiori del corpo automobilistico da trarsi dalle compagnie trasporti, dalle O.L.C. e dai reparti riparazioni, scegliendo naturalmente elementi per i quali sia opportuno e necessario procedere all'addestramento;
- essere svolto presso l'ex centro studi motorizzazione;
- avere un'aliquota di una ventina di frequentatori;
- avere una durata minima di mesi 4.

Si acclude copia dei programmi delle materie di insegnamento che dovrebbero essere impartite.-

IL DIRETTORE GENERALE

1200 6210

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

0 11745

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IL DIRETTORE GENERALE

1200
3/7

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4/7

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Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

P R O G R A M M I

per

corso ufficiali da adibirsi alle officine
di riparazione del materiale automobilistico

6214

Declassified E.O. 13065 Section 3-402/NNDC NO. 785020

P R O G R A M M I

per

corso ufficiali da adibirsi alle officine
di riparazione del materiale automobilistico

6214

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CORSO PER UFFICIALI DA ADIBIRSI ALLE
OFFICINE DI RIPARAZIONE DEL MATERIALE AUTOMOBILISTICO

==========

Durata : mesi 4 -

orario istruzione giornaliera : ore 6 -

ore complessive assegnate : 600

Materie di insegnamento

Parte I : Teorica

A) Teoria elementare dei motori a combustione interna	ore	40
B) Organi dell'autotelaio oltre il motore	"	30
C) Trazione meccanica su strada	"	20
D) Materie di consumo: carburanti e gomme	"	10
E) Tecnologia meccanica	"	20
	ore	120

PARTE II : Teorico pratica

F) Tecnica delle riparazioni	ore	70
G) Gestione del materiale automobilistico	"	20
H) Organizzazione dei magazzini ricambi e collaudazione dei materiali		
	ore	90

Parte III : Pratica

I) Pratica motori e loro riparazione	ore	100
L) Pratica organi dell'autotelaio escluso il motore e loro riparazione	"	100
M) Pratica di officina	"	190
	ore	390

Teorica	ore	120
Teorico - pratica	"	90
Pratica	"	390
Totale	ore	600

6" 21

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Materie di insegnamento

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Teorica	ore	120
Teorico - pratica	"	90
Pratica	"	390
Totale	ore	600

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PARTE I^ : Teorica

A9 TEORIA ELEMENTARE DEI MOTORI A COMBUSTIONE INTERNA

MOTORI A SCOPPIO

a) Motori a 4 tempi

1° - Il motore a scoppio in generale

Descrizione sommaria e schematica di un motore a scoppio a 4 tempi.

2° - La circolazione della potenza

Origine della potenza - Studio elementare del ciclo teorico del motore a 4 tempi e sua rappresentazione grafica - Lavoro e potenza effettiva - Rendimento organico e totale - Potenza specifica - Grado di compressione - Ciclo pratico - Analisi degli elementi che influiscono sulla potenza del motore - Diagrammi reali del motore - Avviamento e prove dei motori.

3° - La circolazione della benzina

Generalità - Caratteristiche delle miscele di aria e benzina - Velocità di propagazione della fiamma - Evaporazione e temperatura della mescela - Carburatore e carburazione - I principali tipi di carburatori - Correzione automatica della dosatura - Regolazione del carburatore.

4° - La circolazione della miscela e dei gas combusti

Tubazione di ammissione e di scarico - Velocità dei gas nella tubazione.

6209

5° - La circolazione elettrica

L'accensione della miscela - Velocità di accensione ed elementi

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MOTORI A SCOPPIO

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Origine della potenza - Studio elementare del ciclo teorico del motore a 4 tempi e sua rappresentazione grafica - Lavoro e potenza effettiva - Rendimento organico e totale - Potenza specifica - Grado di compressione - Ciclo pratico - Analisi degli elementi che influiscono sulla potenza del motore - Diagrammi reali del motore - Avviamento e prove dei motori.

3° - La circolazione della benzina

Generalità - Caratteristiche delle miscele di aria a benzina - Velocità di propagazione della fiamma - Evaporazione e temperatura della mescela - Carburatore e carburazione - I principali tipi di carburatori - Correzione automatica della dosatura - Regolazione del carburatore.

4° - La circolazione della miscela e dei gas combusti

Tubazione di ammissione e di scarico - Velocità dei gas nella tubazione.

5° - La circolazione elettrica

6209

L'accensione della miscela - Velocità di accensione ed elementi che influenzano la - I vari sistemi di accensione - Accensione a bassa ed alta tensione - Spinterogeno e sue parti - Magnete - Tipi principali - Parti e loro funzione.

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6° - La circolazione del lubrificante

; Necessità della lubrificazione - Cenno sulle leggi dell'attrito tra superfici asciutte e superfici lubrificate - Elementi che influiscono sulla lubrificazione - Qualità del lubrificante e sua temperatura - Stato e natura delle superfici lubrificate - Lubrificazione di un motore a combustione interna - La lubrificazione del motore all'avviamento - La temperatura dell'olio di lubrificazione - I vari sistemi di lubrificazione di un motore.

7° - La circolazione del fluido refrigerante

Necessità del raffreddamento - Raffreddamento ad aria - Raffreddamento ad acqua: a termosifone, a pompa - Radiatore e ventilatore - Cenni sul raffreddamento per vaporizzazione dell'acqua.

b) Motori a 2 tempi

8° - Generalità sul motore a due tempi

Descrizione sommaria e schematica di un motore a due tempi.

9° - La circolazione della potenza

Ciclo di un motore a due tempi - Diagramma della distribuzione.

10°- L'alimentazione, la lubrificazione, l'accensione ed il raffreddamento di un motore a due tempi.

11°- Caratteristiche generali del motore a due tempi - Parallelo col motore a quattro tempi.

MOTORI AD INIEZIONE

a) Motori Diesel a 4 tempi

12°- Generalità sul motore Diesel a 4 tempi

...alla potenza

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combustione interna - La lubrificazione del motore all'avviamento - La temperatura dell'olio di lubrificazione - I vari sistemi di lubrificazione di un motore.

7° - La circolazione del fluido refrigerante

Necessità del raffreddamento - Raffreddamento ad aria - Raffreddamento ad acqua: a termosifone, a pompa - Radiatore e ventilatore - Cenni sul raffreddamento per vaporizzazione dell'acqua.

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8° - Generalità sul motore a due tempi

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11°- Caratteristiche generali del motore a due tempi - Parallelo col motore a quattro tempi.

MOTORI AD INIEZIONE

a) Motori Diesel a 4 tempi

12°- Generalità sul motore Diesel a 4 tempi

13°- La circolazione della potenza

14°- La circolazione dell'alimentazione

6208

Generalità - Compressione ed iniezione del combustibile - Iniezione meccanica - La combustione dei motori Diesel - Tipi vari di camere di combustione.

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15° - Cenni sulla circolazione del lubrificante e del fluido refrigerante.

b) Motori Diesel a 2 tempi

16°- Generalità sui motori Diesel a 2 tempi
Motore Junkers.

17°- Pregi e difetti dei motori Diesel

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16°- Generalità sui motori Diesel a 2 tempi

Motore Junkers.

17°- Pregi e difetti dei motori Diesel

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B) ORGANI DELL'AUTOTELAIO OLTRE IL MOTORE

1° - Il giunto ed innesto a frizione

Vari tipi di giunto - Caratteristiche e parallelo - Riscaldamento della frizione durante l'innesto.

2° - Il cambio di velocità

Generalità - Classificazione dei cambi - Cambi a 4 marce - Cambi con terza silenziosa - Cambi sincronizzati - Il cambio di velocità in relazione alle caratteristiche del motore - Cambi a quattro cinque e a otto marce con riduttore di velocità.

3° - La trasmissione

Vari tipi - Giunti cardanici - Giunto elastico - Alberi di trasmissione: Gruppo conico - Gruppo vite senza fine e ruota a denti elicoidali - Trasmissione a catena - Parallelo fra la trasmissione a catena e quella a cardano.

4° - Il differenziale

Moto relativo dei satelliti - Casi di funzionamento - inconvenienti del differenziale.

5° - La direzione

Generalità - Volta corretta - Curva degli errori - Volta totalmente corretta - Fissità - Stabilità - Riversibilità ed irreversibilità della guida - Moto oscillatorio delle ruote anteriori e relativi inconvenienti - Organi di guida - La direzione nei veicoli cingolati.

6° - La frenatura

Cenni sul problema della frenatura - Potenza di frenatura - distanza di frenatura - Servofreni - Categorie diverse - Servofreni

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1° - Il giunto ed innesto a frizione

Vari tipi di giunto - Caratteristiche e parallelo - Riscaldamento della frizione durante l'innesto.

2° - Il cambio di velocità

Generalità - Classificazione dei cambi - Cambi a 4 marce - Cambi con terza silenziosa - Cambi sincronizzati - Il cambio di velocità in relazione alle caratteristiche del motore - Cambi a quattro cinque e a otto marce con riduttore di velocità.

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6° - La frenatura

Cenni sul problema della frenatura - Potenza di frenatura - distanza di frenatura - Servofreni - Categorie diverse - Servofreni che utilizzano la forza viva del veicolo - Frenatura integrale idraulica - Frenatura integrale pneumatica ed idropneumatica - Uso del motore come freno - Frenatura dei rimorchi.

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7° - Il telaio

Costituzione - Vari tipi - Sollecitazioni.

8° - Le sospensioni

Relazioni fra peso sospeso e non sospeso - Flessibilità delle molle - Molle dolci e molle dure - Varie soluzioni di sospensioni - Sospensioni a ruote indipendenti - Sospensioni indipendenti per il moto fuori strada - Ammortizzatori.

9° - Le ruote

Costituzione della ruota in genere - Ruote a raggi di filo d'acciaio - Ruote a razzo di lamiera stampata - Ruote a disco di lamiera stampata - Ruote a razze in metallo fuso.

10°- I cuscinetti

Vari tipi di cuscinetti

11°- La lubrificazione dell'autotelaio

Criteri moderni - Lubrificazione centrale e centralizzata.

EQUIPAGGIAMENTO ELETTRICO DEGLI AUTOVEICOLI

1° - Accumulatori - Dinamo - Motorini di avviamento - Apparecchi di illuminazione - Quadretti di comando.

2° - Descrizione dettagliata e funzionamento dei vari tipi - Struttura delle parti.

3° - Sistemazione a bordo e relativi organi di comando.

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il moto fuori strada - Ammortizzatori.

9° - Le ruote

Costituzione della ruota in genere - Ruote a raggi di filo d'acciaio - Ruote a razzo di lamiera stampata - Ruote a disco di lamiera stampata - Ruote a razze in metallo fuso.

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3° - Sistemazione a bordo e relativi organi di comando.

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C) TRAZIONE MECCANICA SU STRADA

1° - Traslazione degli autoveicoli in dipendenza dell'aderenza.

Ruota portante e ruota motrice - Moto di un autoveicolo a qpattro ruote motrici - Sistemi cingolati (cenni) - La marcia sui terreni inconsistenti (neve, sabbia, ecc.).

2° - Le resistenze al moto degli autoveicoli

Resistenze di rotolamento in piano - Resistenza dovuta alla pendenza stradale - Resistenza dell'aria - Resistenza dovuta alle curve - Resistenza dovuta al rimorchio.

3° - I mezzi di aderenza

Vari tipi.

4° - Cenni sulle prestazioni di un autoveicolo

5° - La marcia in autocolonna

Generalità - Distanza fra gli autoveicoli di una stessa colonna - Portata di una strada dal punto di vista pratico nell'impiego.

6° - La disciplina di marcia

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Ruota portante e ruota motrice - Moto di un autoveicolo a quattro ruote motrici - Sistemi cingolati (cenni) - La marcia sui terreni inconsistenti (neve, sabbia, ecc.).

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Vari tipi.

4° - Cenni sulle prestazioni di un autoveicolo

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6° - La disciplina di marcia

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D) MATERIE DI CONSUMO

I CARBURANTI

1° - Definizioni e classificazione generale

2° - I carburanti liquidi

Il petrolio e i suoi derivati - Probabile origine del petrolio e cenno storico - Distribuzione del petrolio nel mondo - Estrazione del petrolio greggio e cenni sui diversi sistemi di lavorazione per ricavare i sottoprodotti - Caratteristiche chimico-fisiche del petrolio e dei suoi sottoprodotti.

Benzina - Caratteristiche.

Petrolio - Gasolio - Olio combustibile.

Estrazione del petrolio dalle rocce asfaltiche e dagli schisti bituminosi.

Il benzolo e la sua produzione.

L'alcol e carburante (etilico e metilico).

Gli olii vegetali.

Le miscele carburanti - I carburanti sintetici.

3° - Cenni sui carburanti gassosi

I gas naturali, loro provenienza e utilizzazione; i gas artificiali, gas illuminante, residui del trattamento di combustibili solidi o liquidi (liquigas, gas della distillazione a bassa temperatura della lignite, ecc.) gas di generatore.

4° - Caratteristiche dei principali carburanti liquidi per motori a combustione interna.

5° - Il trasporto e l'immagazzinamento dei derivati del petrolio

Generalità - Carri cisterna - Carri cisterna ferroviari - Autobotti - Depositi costieri ed interni - Depositi di media e di

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2° - I carburanti liquidi

Il petrolio e i suoi derivati - Probabile origine del petrolio e cenno storico - Distribuzione del petrolio nel mondo - Estrazione del petrolio greggio e cenni sui diversi sistemi di lavorazione per ricavare i sottoprodotti - Caratteristiche chimico-fisiche del petrolio e dei suoi sottoprodotti.

Benzina - Caratteristiche.

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4° - Caratteristiche dei principali carburanti liquidi per motori a combustione interna.

5° - Il trasporto e l'immagazzinamento dei derivati del petrolio

Generalità - Carri cisterna - Carri cisterna ferroviari - Autobotti - Depositi costieri ed interni - Depositi di media e di piccola capacità con distributore - Fusti metallici.

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I LUBRIFICANTI

6° - Concetti generali della lubrificazione

7° - Caratteristiche fisico-chimiche dei lubrificanti - Lubrificanti minerali, vegetali, composti.

8° - La rigenerazione dei lubrificanti usati.

LE GOMME

9° - Origini del caucciù e sua storia - Lavorazione del caucciù e i sistemi di produzione dei manufatti a base di gomma elastica.

I succedanei naturali ed artificiali.

10°- Le gomme semipneumatiche: cenni sul montaggio e lo smontaggio degli anelli semipneumatici.

11°- I pneumatici: la camera d'aria e il copertone - Il fissaggio del pneumatico al cerchione della ruota - Denominazione dei cerchi e dei pneumatici - Le cause del logorio dei pneumatici - La riparazione e la conservazione in magazzino delle gomme.

12°- Vari tipi di gommatura.

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6° - Concetti generali della lubrificazione

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12°- Vari tipi di gommatura.

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E) TECNOLOGIA MECCANICA

1° - I materiali industriali
- leghe e loro proprietà
- le principali leghe industriali
- il problema nazionale dei principali metalli e delle loro leghe.

2° - Cenni di metallurgica del ferro
- fabbricazione della ghisa e dell'acciaio
- processi vari - attrezzature relative.

3° - Cenni sulla metallurgica di altri principali metalli

4° - Le proprietà meccaniche dei metalli e loro leghe
- alcuni sistemi di misura ed attrezzatura relative.

5° - I principali trattamenti termici e loro influenza sulle proprietà meccaniche.

6° - Le lavorazioni meccaniche a caldo
- operazioni elementari di fucinatura
- vari tipi di fucine e di forni
- saldature autogene e con apporto
- magli e pressalaminaggio e trafilatura
- caratteristiche tecnologiche
- laminatori
- fucinatura.

7° - La lavorazione a freddo dei metalli
- caratteristiche delle macchine utensili
- loro organizzazione strutturale
- meccanismi ed organi fondamentali
- utensileria.

6201

8° - Macchinario vario per stampaggio e trafila a freddo

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- I principali leghe industriali
- il problema nazionale dei principali metalli e delle loro leghe.

2° - Cenni di metallurgica del ferro
- fabbricazione della ghisa e dell'acciaio
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3° - Cenni sulla metallurgica di altri principali metalli

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- caratteristiche tecnologiche
- laminatori
- fucinatura.

7° - La lavorazione a freddo dei metalli
- caratteristiche delle macchine utensili
- loro organizzazione strutturale
- meccanismi ed organi fondamentali
- utensileria.

6201

8° - Macchinario vario per stampaggio e trafila a freddo
- imbottitura ed estruzione del legno e del ferro.

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9° - La misura, il controllo ed intercambialità nelle lavorazioni meccaniche.

10°- I processi tecnologici di fabbricazioni per alcuni principali manufatti interessanti la tecnica degli automezzi.

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F) TECNICA DELLE RIPARAZIONI

Gli allievi dovranno acquisire tutte quelle cognizioni teorico-pratiche relative all'organizzazione del servizio delle riparazioni ed al procedimento nell'esecuzione delle riparazioni. Tale insegnamento sarà integrato con la "pratica di officina".

1° - Organizzazione del servizio automobilistico nei riguardi delle riparazioni.

2° - I mezzi del servizio delle riparazioni.

3° - Organizzazione di un'officina riparazioni automobilistiche
- La ricezione dell'automezzo: controllo, lavaggio, collaudo, ed esame
- Il laboratorio "smontaggio e montaggio" (organizzazione int.)
- Il " "motori e trasmissione" (" ")
- Il " "impianti elettrici" (" ")
- Il " "macchine operatrici" (" ")
- Il " "fabbri e saldatori" (" ")
- Il " "carrozzeria" (" ")
- Il collaudo degli autotelai e degli autoveicoli
- Le dotazioni
- Il collegamento fra i vari laboratori ed il movimento dei materiali
- L'amministrazione del lavoro (ordini di lavoro - contatempi operai - contatempi macchine - spese generali di laboratorio - i ricambi - chiusure dell'ordine di lavoro)
- Il ricupero
- I magazzini automobilistici e il loro collegamento tecnico amministrativo con l'officina.

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insegnamento sarà integrato con la "pratica di officina".

1° - <u>Organizzazione del servizio automobilistico nei riguardi delle riparazioni.</u>

2° - <u>I mezzi del servizio delle riparazioni.</u>

3° - <u>Organizzazione di un'officina riparazioni automobilistiche</u>

- La ricezione dell'automezzo: controllo, lavaggio, collaudo, ed esame
- Il laboratorio "smontaggio e montaggio" (organizzazione int.)
- Il " "motori e trasmissione" (" ")
- Il " "impianti elettrici" (" ")
- Il " "macchine operatrici" (" ")
- Il " "fabbri e saldatori" (" ")
- Il " "carrozzeria" (" ")
- Il collaudo degli autotelai e degli autoveicoli
- Le dotazioni
- Il collegamento fra i vari laboratori ed il movimento dei materiali
- L'amministrazione del lavoro (ordini di lavoro - contatempi operai - contatempi macchine - spese generali di laboratorio - i ricambi - chiusure dell'ordine di lavoro)
- Il ricupero
- I magazzini automobilistici e il loro collegamento tecnico amministrativo con l'officina.

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4° - <u>Tecnica delle lavorazioni automobilistiche</u>

- La vita degli organismi meccanici
- Gradi di lavorazione meccanica- accoppiamenti - giuochi di

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montaggio - usure
- Disegni costruttivi
- Cataloghi parti di ricambio - manuale delle riparazioni
- Le norme tecniche di collaudo dei materiali automobilistici
- Il motore: giuochi, usure - radiatore - impianto elettrico
- La trasmissione: frizione - cambio albero trasmissione - differenziale - motore
- Telaio
- Organi di guida
- Organi della sospensione
- Carrozzeria
- Impianti elettrici dell'automezzo.

5° - <u>Tecnica delle lavorazioni generiche</u>
- Lavorazione dei metalli: a caldo, a freddo
- Lavorazione del legname.
- Verniciatura
- Bagni galvanici
- Fonderia
- Accoppiamenti e montaggi elementari - collaudo
- Montaggi di complessivi - collaudo
- I locali ad uso officina
- Attrezzature generiche: luce artificiale - aria compressa - forza motrice elettrica
- I banchi da lavoro - loro disposizione in relazione al lavoro e alla luce
- Mezzi di sollevamento e di trasporto interno.

6° - <u>Degli operai</u>
- Qualifiche degli operai
- Rendimento degli operai
- Protezione degli operai

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- La trasmissione: frizione - cambio albero trasmissione - differenziale - motore
- Telaio
- Organi di guida
- Organi della sospensione
- Carrozzeria
- Impianti elettrici dell'automezzo.

5° - Tecnica delle lavorazioni generiche

- Lavorazione dei metalli: a caldo, a freddo
- Lavorazione del legname.
- Verniciatura
- Bagni galvanici
- Fonderia
- Accoppiamenti e montaggi elementari - collaudo
- Montaggi di complessivi - collaudo
- I locali ad uso officina
- Attrezzature generiche: luce artificiale - aria compressa - forza motrice elettrica
- I banchi da lavoro - loro disposizione in relazione al lavoro e alla luce
- Mezzi di sollevamento e di trasporto interno.

6° - Degli operai

- Qualifiche degli operai
- Rendimento degli operai
- Protezione degli operai
- Lavori nocivi
- Amministrazione del personale operaio.

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7° - Del nomenclatore: suo impiego

8° - Dei cataloghi: loro impiego

9° - Dei manuali delle riparazioni

10°- Della contabilità di officina: documentazione tecnica e amministrazione del lavoro.

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G) GESTIONE DEL MATERIALE AUTOMOBILISTICO

1° - L'Ufficio amministrazione di uno stabilimente: scopo, organizzazione

2° - La gestione in contanti

3° - La gestione in materia: il consegnatario

4° - Le richieste di carico e scarico -il 1273- I registri sussidiari

5° - Il collegamento fra l'ufficio del magazzino ed i magazzinieri

6° - L'organizzazione dell'ufficio dei magazzini.

L'Ufficiale dovrà essere altresì addestrato in modo da poter fare rapidamente e sicuramente le seguenti operazioni:

- Impiego dei nomenclatori
- Impiego dei cataloghi parti di ricambio
- Impiego dei cartellini
- Compilazione e controllo delle richieste di carico e di scarico
- Compilazione e controllo del 1273
- Compilazione e controllo dei registri sussidiari
- Controllo, dei materiali e delle relative registrazioni
- Compilazione e controllo dei verbali di ricezione materiali
- Compilazione e controllo delle spedizioni materiali.

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3° - La gestione in materia: il consegnatario

4° - Le richieste di carico e scarico -il 1273- I registri sussidiari

5° - Il collegamento fra l'ufficio del magazzino ed i magazzinieri

6° - L'organizzazione dell'ufficio dei magazzini.

L'Ufficiale dovrà essere altresì addestrato in modo da poter fare rapidamente e sicuramente le seguenti operazioni:

- Impiego dei nomenclatori
- Impiego dei cataloghi parti di ricambio
- Impiego dei cartellini
- Compilazione e controllo delle richieste di carico e di scarico
- Compilazione e controllo del 1273
- Compilazione e controllo dei registri sussidiari
- Controllo, dei materiali e delle relative registrazioni
- Compilazione e controllo dei verbali di ricezione materiali
- Compilazione e controllo delle spedizioni materiali.

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H) ORGANIZZAZIONE DEI MAGAZZINI RICAMBI E COLLAUDAZIONE DEI MATERIALI

1° - I locali ad uso magazzino

2° - Scaffali: tipi, caratteristiche. La disposizione degli scaffali

3° - Mezzi di sollevamento e di trasporto interno

4° - Il cartelline: scopo, tracciato, impiego agli effetti tecnici amministrativi

5° - Organizzazione dei magazzini: assegnazione degli scaffali per ogni tipo di veicolo. I materiali comuni a più tipi. Le materie prime. I materiali vari

6° - L'introduzione dei materiali del magazzino: La sala ricezione - Il collaudo tecnico - l'introduzione nei magazzini e la messa sugli scaffali

7° - La distribuzione dei materiali del magazzino. Il buono di prelevamento - La raccolta dei materiali - la consegna e relativa distribuzione dei materiali

8° - La richiesta dei materiali in base all'esame dei cartellini

9° - I magazzini speciali: gomme - legnami - vernici - carburanti

10°- La raccolta dei rottami

11°- La spedizione e la ricezione dei materiali a mezzo ferrovia

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1° - I locali ad uso magazzino

2° - Scaffali: tipi, caratteristiche. La disposizione degli scaffali

3° - Mezzi di sollevamento e di trasporto interno

4° - Il cartellino: scopo, tracciato, impiego agli effetti tecnici amministrativi

5° - Organizzazione dei magazzini: assegnazione degli scaffali per ogni tipo di veicolo. I materiali comuni a più tipi. Le materie prime. I materiali vari

6° - L'introduzione dei materiali nel magazzino: La sala ricezione - Il collaudo tecnico - l'introduzione nei magazzini e la messa sugli scaffali

7° - La distribuzione dei materiali del magazzino. Il buono di prelevamento - La raccolta dei materiali - la consegna e relativa distribuzione dei materiali

8° - La richiesta dei materiali in base all'esame dei cartellini

9° - I magazzini speciali: gomme - legnami - vernici - carburanti

10°- La raccolta dei rottami

11°- La spedizione e la ricezione dei materiali a mezzo ferrovia

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I) PRATICA MOTORI E LORO RIPARAZIONE

= P R E M E S S A *

Le esercitazioni hanno lo scopo non soltanto di approfondire la conoscenza del materiale, del suo montaggio e funzionamento ma anche di far praticamente riconoscere agli allievi le parti resisi-si inefficienti in conseguenza ad usura o per inadeguato impiego del mezzo.

L'abbondante casistica sulla quale dovrà vertere l'esercitazione sarà conseguentemente illustrata per quanto concerne il procedimento delle riparazioni.

Gli allievi troveranno così integrazione nelle "esercitazioni pratiche di officina" delle nozioni acquisite, espletandone praticamente la procedura tecnica ed amministrativa seguita dall'officina stessa nell'esecuzione delle riparazioni.

a)- Motori a scoppio

1° - Organi per la circolazione della potenza: Cilindro e basamento - Stantuffo - Perno - Biella - Albero a gomito - Volano - Cuscinetti. - Descrizione dettagliata dei vari tipi - struttura - sollecitazioni e materiali costruttivi impiegati. - Regolazione, manutenzione, guasti e riparazioni.

2°- Organi della distribuzione : Albero della distribuzione (eccentrici - Aste delle punterie - Bilancieri - Valvole - Guidavalvole - sedivalvole - Molle - Ingranaggi e catene per comando distribuzione.
- Descrizione dettagliata degli organi in relazione ai vari sistemi di distribuzione - Struttura - Sollecitazioni e materiali costruttivi impiegati.
- Manutenzione, guasti e riparazioni.

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anche di far praticamente riconoscere agli allievi le parti resisi-si inefficienti in conseguenza ad usura o per inadeguato impiego del mezzo.

L'abbondante casistica sulla quale dovrà vertere l'esercitazione sarà conseguentemente illustrata per quanto concerne il procedimento delle riparazioni.

Gli allievi troveranno così integrazione nelle "esercitazioni pratiche di officina" delle nozioni acquisite, espletandone praticamente la procedura tecnica ed amministrativa seguita dall'officina stessa, nell'esecuzione delle riparazioni.

a)- Motori a scoppio

1° - Organi per la circolazione della potenza: Cilindro e basamento - Stantuffo - Perno - Biella - Albero a gomito - Volano - Cuscinetti. - Descrizione dettagliata dei vari tipi - struttura - sollecitazioni e materiali costruttivi impiegati. - Regolazione, manutenzione, guasti e riparazioni.

2° - Organi della distribuzione : Albero della distribuzione (eccentrici - Aste delle punterie - Bilancieri - Valvole - Guidavalvole - sedivalvole - Molle - Ingranaggi a catene per comando distribuzione.
- Descrizione dettagliata degli organi in relazione ai vari sistemi di distribuzione - Struttura - Sollecitazioni e materiali costruttivi impiegati.
- Manutenzione, guasti e riparazioni.
- Registrazione delle punterie e regolazione della distribuzione.

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3° - <u>Organi per l'alimentazione del carburatore in relazione al sistema impiegato:</u> Serbatoio ed accessori (Tappo - Indicatore di livello - Riserva - Rubinetti) - Tubazioni - Raccordi - Filtri - Alimentatori - Pompa - Carburatori.
- Descrizione dettagliata e funzionamento dei vari tipi.
- Regolazione - manutenzione, guasti e riparazioni.
- Sistemazione a bordo e relativi organi di comando e regolazione.

4° - <u>Organi per la circolazione della miscela:</u> Regolatori - Tubazioni di ammissione e di scarico - Sovralimentatori - Silenziatori.
- Descrizione dettagliata e funzionamento dei vari tipi.
- Regolazione - manutenzione, guasti e riparazioni.
- Sistemazione a bordo e relativi organi di comando e regolazione.

5° - <u>Organi per l'accensione in relazione ai sistemi impiegati:</u> Magnete - Spinterogeno - Candele.
- Descrizione dettagliata e funzionamento dei vari tipi - Struttura delle parti - Sollecitazioni - Materiali costruttivi impiegati.
- Regolazione - Manutenzione - Guasti - Inconvenienti e riparazioni.
- Sistemazione a bordo e relativi organi di comando e regolazione.

L'anticipo dell'accensione nei vari sistemi e relativi organi di regolazione.

La messa in fase del dispositivo di accensione col motore.

6° - <u>Organi per la circolazione del lubrificante in relazione ai sistemi impiegati:</u> Serbatoi - Pompe - Valvole di pressione - Tubazioni - Livelli - Manometri - Filtri - Depuratori - Retti-

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- Regolazione - manutenzione, [illegible]
- Sistemazione a bordo e relativi organi di comando e regolazione.

4° - Organi per la circolazione della miscela: Regolatori - Tubazioni di ammissione e di scarico - Sovralimentatori - Silenziatori.
- Descrizione dettagliata e funzionamento dei vari tipi.
- Regolazione - manutenzione, guasti e riparazioni.
- Sistemazione a bordo e relativi organi di comando e regolazione.

5° - Organi per l'accensione in relazione ai sistemi impiegati:
Magnete - Spinterogeno - Candele.
- Descrizione dettagliata e funzionamento dei vari tipi - Struttura delle parti - Sollecitazioni - Materiali costruttivi impiegati.
- Regolazione - Manutenzione - Guasti - Inconvenienti e riparazioni.
- Sistemazione a bordo e relativi organi di comando e regolazione.

L'anticipo dell'accensione nei vari sistemi e relativi organi di regolazione.
La messa in fase del dispositivo di accensione col motore.

6° - Organi per la circolazione del lubrificante in relazione ai sistemi impiegati: Serbatoi - Pompe - Valvole di pressione - Tubazioni - Livelli - Manometri - Filtri - Depuratori - Rettificatori - Refrigeratori.
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- Descrizione dettagliata e funzionamento dei vari tipi - Struttura delle parti - Sollecitazioni e materiali costruttivi impiegati.

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- Regolazione - Manutenzione - Guasti, inconvenienti e riparazieni.
- Sistemazione a borde e relativi organi di comando e regolazione.

7° - Organi del raffreddamento in relazione ai sistemi impiegati: Alette - Radiatori - Tubazioni - Termometri - Termostati - Ventilatori e ventole - Pompe.
- Descrizione dettagliata e funzionamenti dei vari tipi - Struttura delle parti - Sollecitazioni e materiali costruttivi impiegati.
- Sistemazione a bordo e relativi organi di comando e regolazione.

8° - Le variati della struttura degli organi delle varie circolazioni dei motori a due tempi.

b) - Motori ad iniezione -

9° - Organi della circolazione della petenza e organi della distribuzione: Basamento - Cilindro - Pistone - Spinotto - Biella - Albero a gomito - Cuscinetti - Alberi ad eccentrici - Punterie - Aste - Bilancieri - Valvole.
- Caratteristiche speciali di tali organi in relazione ai vari tipi di motore - Struttura delle varie parti.
- Regolazione - Manutenzione - Guasti e riparazioni.

10°- Alimentazione ed organi relativi in relazione ai vari sistemi: Serbatoi - Pompe - Depuratori - Filtri - Meccanismo per l'iniezione - Organi di comando della pompa - Pompe d'iniezione - Iniettori - Tubazioni - Regolatori.
- Descrizione dettagliata e funzionamento dei vari tipi - Struttura delle parti.
- Sistemazione a bordi ed organi di comando e regolazione. In-

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Ventilatori e ventole - Pompe.

- Descrizione dettagliata e funzionamenti dei vari tipi - Struttura delle parti - Sollecitazioni e materiali costruttivi impiegati.
- Sistemazione a bordo e relativi organi di comando e regolazione.

8° - Le varianti nella struttura degli organi delle varie circolazioni dei motori a due tempi.

b) - Motori ad iniezione -

9° - Organi della circolazione della potenza e organi della distribuzione: Basamento - Cilindro - Pistone - Spinotto - Biella - Albero a gomito - Cuscinetti - Alberi ad eccentrici - Punterie - Aste - Bilancieri - Valvole.
- Caratteristiche speciali di tali organi in relazione ai vari tipi di motore - Struttura delle varie parti.
- Regolazione - Manutenzione - Guasti e riparazioni.

10°- Alimentazione ed organi relativi in relazione ai vari sistemi: Serbatoi - Pompe - Depuratori - Filtri - Meccanismo per l'iniezione - Organi di comando della pompa - Pompe d'iniezione - Iniettori - Tubazioni - Regolatori.
- Descrizione dettagliata e funzionamento dei vari tipi - Struttura delle parti.
- Sistemazione a bordi ed organi di comando e regolazione. Anticipo e messa in fase della pompa col motore.
- Regolazione - Manutenzione, Guasti, inconvenienti e riparazioni.

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11° - Lubrificazione

- Descrizione dettagliata e funzionamento dei vari tipi speciali per la lubrificazione dei motori Diesel..

12° - Raffreddamento

- Apparecchiature speciali per il raffreddamento dei motori Diesel.

13° - Avviamento

- Dispositivi speciali per l'avviamento: Avviatori ad inerzia- Candele a resistenza.

14° - Le varianti nella struttura degli organi delle varie circolazioni nei motori Diesel a 2 tempi.

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- Apparecchiature speciali per il raffreddamento dei metori Diesel.

13° - Avviamento

- Dispositivi speciali per l'avviamento: Avviatori ad inerzia- Candele a resistenza.

14° - Le varianti nella struttura degli organi delle varie circolazioni nei motori Diesel a 2 tempi.

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L) PRATICA ORGANI DELL'AUTOTELAIO, ESCLUSO IL MOTORE E LORO RIPARAZIONE.

1° - Generalità

- Costituzione organica di un autoveicolo e sistemazione, a bordo, dei vari organi costituenti un autotelaio.

2° - Giunto od innesto a frizione

- Descrizione dettagliata dei vari tipi.
- Impiego razionale della frizione.
- Regolazione, manutenzione, difetti di funzionamento e riparazioni.

3° - Cambio di velocità

- Descrizione dei vari tipi: ad ingranaggi scorrevoli, con rotismi silenziosi, con dispositivi di sincronizzazione.
- Guasti, difetti di funzionamento e riparazione.

4° - La trasmissione

- Esame particolareggiato dei tipi fondamentali di trasmissione: a catena, a cardano - Esame dei vari tipi di catena e di giunto - Albero di trasmissione.
- Esame dei vari tipi di gruppi di riduzione al ponte: conici, elicoidali, ipoidi, ecc.

5° - Il differenziale

- Inconvenienti e riparazioni - Dispositivo di bloccaggio.

6° - La direzione

- Descrizione degli organi di guida.
- Comando della direzione con vite senza fine e madrevite?
- Comando della direzione con vite senza fine e ruota elicoidale.
- Esame degli organi di direzione per ruote portanti a sospen-

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- Costituzione organica di un autoveicolo e sistemazione, a bordo, dei vari organi costituenti un autotelaio.

2° - Giunto od innesto a frizione

- Descrizione dettagliata dei vari tipi.
- Impiego razionale della frizione.
- Regolazione, manutenzione, difetti di funzionamento e riparazioni.

3° - Cambio di velocità

- Descrizione dei vari tipi: ad ingranaggi scorrevoli, con rotismi silenziosi, con dispositivi di sincronizzazione.
- Guasti, difetti di funzionamento e riparazione.

4° - La trasmissione

- Esame particolareggiato dei tipi fondamentali di trasmissione: a catena, a cardano - Esame dei vari tipi di catena e di giunto - Albero di trasmissione.
- Esame dei vari tipi di gruppi di riduzione al ponte: conici, elicoidali, ipoidi, ecc.

5° - Il differenziale

- Inconvenienti e riparazioni - Dispositivo di bloccaggio.

6° - La direzione

- Descrizione degli organi di guida.
- Comando della direzione con vite senza fine e madrevite?
- Comando della direzione con vite senza fine e ruota elicoidale.
- Esame degli organi di direzione per ruote portanti a sospensione indipendente - Esame degli organi di direzione per ruote motrici a sospensione indipendente - Difetti, inconvenienti e riparazioni.

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7° - La frenatura

- Descrizione dei vari tipi di freno: a ceppi, a segmenti, a nastro - Sistemi di comando della frenatura a sistemi di servofreno (meccanici, idraulici, a pressione, ecc.) - Difetti dei freni - Verifiche, messa a punto e manutenzione.

8° - Le sospensioni

- Descrizione ed esame dei vari tipi di sospensione - Sospensione a ruote indipendenti.

9° - Gli ammortizzatori

10° - Le ruote

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8° - Le sospensioni

- Descrizione ed esame dei vari tipi di sospensione - Sospensione a ruote indipendenti.

9° - Gli ammortizzatori

10° - Le ruote

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M) PRATICA DI OFFICINA

Gli allievi dovranno completare e perfezionare tutte le cognizioni teoriche e teorico-pratiche relative alla conoscenza del materiale, alle possibilità delle sue riparazioni ed all'esecuzione di esse. Essi dovranno pertanto seguire e, per quanto più possibile, partecipare fattivamente alle varie lavorazioni di officina. Dovranno altresì esser chiamati a risolvere tutti quei pratici problemi relativi alle soluzioni meccaniche che normalmente sorgono nel compimento delle lavorazioni.

Tale forma di addestramento pratica dovrà essere estesa anche per quanto concerne l'impiego: del nomenclatore, dei cataloghi, dei manuali delle riparazioni, e della documentazione tecnica e amministrativa del lavoro.

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ne di esse. Essi dovranno pertanto seguire e, per quanto più possibile, partecipare fattivamente alle varie lavorazioni di officina. Dovranno altresì esser chiamati a risolvere tutti quei pratici problemi relativi alle soluzioni meccaniche che normalmente sorgono nel compimento delle lavorazioni.

Tale forma di addestramento pratica dovrà essere estesa anche per quanto concerne l'impiego: del nomenclatore, dei cataloghi, dei manuali delle riparazioni, e della documentazione tecnica e amministrativa del lavoro.

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SUBJECT :- Armourers Course.

RECEIVED 6 APR 1946

ME/12

12 BRITISH LIAISON UNIT
for the
ITALIAN CENTRAL MILITARY SCHOOLS
(Tel : ROME 66318-9)

Ref :

35

To: Comd.,
12 British Liaison Unit.

4 April 1946.

Copy to : AIMME,
Land Forces Sub Comm AC MMIA.

Reference the above subject and further to our conversation with AIMME, MMIA at mid-day 3 April 1946.

The following observations of the Armourers Course at present in session at S.M.O.A., Civitavecchia are passed to you please.

Total Students now on course = 52.

1. As a result of very superficial observation of all the students it appears that a maximum of 4 only have had previous knowledge of small arms, and the remainder are, in their knowledge practically equivalent to new intakes. this.

2. It is pointed out that S.M.O.A. anticipated a course of students who were already armourers of a sort with knowledge of Italian arms and who needed only to be guided into assimilating a knowledge of British Small Arms.

3. This present course will have to run the full 6 weeks, whereas it was planned to be completed by 30 April 1946. This will therefore overlap the new intake course due to commence on 1st May, so increasing the difficulties arising due to lack of instructors.

4. Analysis of Course.

Class	No. of Students.
1912	1
1917	1
1922	1
1923	7
1924	23
1925	19
TOTAL	52

6187

5. The attached list shows Units submitting students and number sent.

Declassified E.O. 12065 Section 3-402/NND NO. 785020

Copy to: [illegible],
Land Forces Sub Comm AC MMIA.

Reference the above subject and further to our conversation with AHME, MMIA at mid-day 3 April 1946.

The following observations of the Armourers Course at present in session at S.M.O.A., Civitavecchia are passed to you please.

Total Students now on course = 52.

1. As a result of very superficial observation of all the students it appears that a maximum of 4 only have had previous knowledge of small arms, and the remainder are, in their knowledge practically equivalent to new intakes. this.

2. It is pointed out that S.M.O.A. anticipated a course of students who were already armourers of a sort with knowledge of Italian arms and who needed only to be guided into assimilating a knowledge of British Small Arms.

3. This present course will have to run the full 6 weeks, whereas it was planned to be completed by 30 April 1946. This will therefore overlap the new intake course due to commence on 1st May, so increasing the difficulties arising due to lack of instructors.

4. Analysis of Course.

Class	No. of Students.
1912	1
1917	1
1922	1
1923	7
1924	23
1925	19
TOTAL	52

6187

5. The attached list shows Units submitting students and number sent.

Major REME,
DAIME,
12 British Liaison Unit for the
Italian Central Military Schools.

ATT/raw.

Internal.
GSO II Training.
File. (DAIME)
Float.

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

C - O - P - Y

CORSO ARMAIOLI.

Allievi Sequentatori No. 52.

Scuola Addestramento Genio Civitavecchia		No.	9
1	C.A.R. Casale Monferrato		2
2	C.A.R.	Siena	2
3	C.A.R.	Cesano	3
4	C.A.R.	Verona	3
6	C.A.R.	Pesaro	1
8	C.A.R.	Orvieto	2
9	C.A.R.	Bari	3
11	C.A.R.	Palermo	3
10	C.A.R.	Avellino	1
2 Reggimento Fanteria		Genova	3
105 Compagnia Servizi Genio		Udine	3
S.M.C.A. Civitavecchia			1
Scuola della Motorizzazione		Cecchignuola Roma	2
Scuola Fanteria		Cesano	6
Scuola Addestramento Artiglieria		Bracciano	3
Scuola Educazione Fisica		Cesano	1
2 Compagnia Trasporti		Cesano	1
Compagnia Carri Cingolati		Cesano	1
Scuola Collegamento Genio 4 Marconisti		Roma	2
Totale Allievi		No.	52

6186

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Subject: Training.

REME BRANCH
HQ: 3 British Liaison Unit

ME/PER/22
2 April 1946

ME/22

To: A.D.M.E.
Land Forces Sub-Comm A.C.
M.M.I.A.

Ref: Your letter ME/22/20 March 1946. → see 21

We have submitted the contents of a/m letter to CME "Legnano" Inf Div, who have now presented their problem to this HQ, translation of which is attached herewith for information.

S/Capt.
(W.J.Stocker)
REME: 3 British Liaison Unit.

CMF.

RECEIVED 6 APR 1946
7954

3/14/46

TRANSLATION

HQ/ "LEGNANO" INFANTRY DIVISION
Uff. Automobilistico

No. 07/1761

Bergamo, 29 March 1946

Subject: Training of militarized personnel.

To: REME BRANCH - 3 B.L.U.
(Ref. n. ME/MSC/18 d/d 23 Mar 1946.

---

1. - This HQ. has not been receiving any auxiliary specialized military personnel for more than 18 months.

2. - Therefore, in order to face our needs, we have had to draw from our dependent Units the necessary personnel likely to succeed, after a training course, in a specialized trade.

3. - During the a/m 18 months many of these training courses have been held at the dependent Wksps and the personnel that was judged satisfactory has all been utilized, according to their skill, as wksps mechanics, or as workmen at LADs, Wksps PLs & wksps.

4. - When even this source of supply failed for absolute lack of suitable men, this HQ was compelled to take up and militarize civilian personnel, whom they employed at first exclusively in the wksps and afterwards were obliged to employ also in the Pls and LADs Wksps.

5. - In confirming that at the moment there are no military in the Divs that can be trained (if there had been any this HQ would not have hesitated to send them, as in the past, to the dependent Wksps), we point out that :

a) We are entirely without military personnel;
b) From the 15 April onwards war time laws emanated by the Ital. Govt will cease to have effect, therefore the dependent militarized personnel will be demobilized;

c) Not having received authority to keep the a/n personnel temporarily, this HQ will be obliged to keep them as "daily personnel";

d) The qualification of "daily personnel" means that this personnel can leave their job without giving any previous notice;

e) On the other hand, as the taking up of any other personnel will not be allowed after 15 April 1946, some of them (or even all of them) now working with the REME BRANCH may give notice, thus paralysing the activity of this Branch;

6. - The problem, as you can see, is a serious one and this HQ has reason to believe that from 16 April 1946 it may become more serious still, thus endangering the efficiency of the Div.

6

Declassified E.O. 12065 Section 3-402/NNBC NO. 785020

3. - During the a/m 10 months many of these training courses have been held at the dependent Wksps and the personnel that was judged satisfactory has all been utilized, according to their skill, as wksps mechanics, or as workmen at LADs, Wksps PLs & wksps.

4. - When even this source of supply failed for absolute lack of suitable men, this HQ was compelled to take up and militarize civilian personnel, whom they employed at first exclusively in the wksps and afterwards were obliged to employ also in the Pls and LADs Wksps.

5. - In confirming that at the moment there are no military in the Divs that can be trained (if there had been any this HQ would not have hesitated to send them, as in the past, to the dependent Wksps), we point out that :

a) We are entirely without military personnel;
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d) The qualification of "daily personnel" means that this personnel can leave their job without giving any previous notice;

e) On the other hand, as the taking up of any other personnel will not be allowed after 15 April 1946, some of them (or even all of them) now working with the REME BRANCH may give notice, thus paralysing the activity of this Branch;

6. - The problem, as you can see, is a serious one and this HQ has reason to believe that from 16 April 1946 it may become more serious still, thus endangering the efficiency of the Div.

6185

7. - It appears that the Allies have informed the It. authorities that they are not agreeable to the employment of civilian personnel in the Army Units.

It is certain, however, that the militarization of the personnel could have solved the problem, because the civilian personnel would have been in every way equal to the military personnel, the only difference being their higher retribution in proportion to their skill.

As on the 15 April all militarization will cease, it would be necessary to study and solve the problem urgently, at least for what concerns the transitory period up to the time when it will be possible to rely on the new recruits.

Sgd: F. Garofoli
(Chief of Staff)

GT/33

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

QME/22

MEMORANDUM for Col.BLUNT of the M.M.I.A.(REME) relative to the M.T. School.

(33)

Further to agreements reached by telephone on the 28 March I forward you the information in respect of the increments of works for the organisation of the M.T. school at Cecchignola:

The Military Engineers have still to commence the following works;

a) repairs to the walls which subdivide the premises:
b) Fitting of the kitchen in accordance with the plans already laid down;
c) repair the latrines in accordance with the agreements reached with Col.Nigri;
d) Repairs to the windows and doors of the various premises being used either as rooms or workshops.
e) repairs to the ~~water~~ water conduit:for O.Rs wash house ,latrines etc.
f) Repair of the electrical plant for the illumination of the various premises and motor power.
g) Fitting of suitable telephone installations with switchboard and telephone sets in the various premises in which the units under command have their HQ at a distance from the school HQ.

It is absolutely necesary that the a/m works not only commence at once,but are carried out by the equipment suitable for the time still left available for their accomplishment which is more or less only a month.

While it is being arranged to have the materials necessary for the equipping of the class rooms sent to the school,agreements are preceding - with success - for the formation of the tradesmen courses to be carried out at Rome- auxilary to those which will be carried out at the Cecchignola school - by the the Fiat the industrial R.R. School and the A.A.C.I.-

On this subject I will supply you further information within a short time.

6718

Translation please
Brevi & II
Blunt

PROMEMORIA per il Sig. Col. BLUNT della M.M.I.A (REME) relativo alla Scuola della Motorizzazione.-

In relazione alle intese telefoniche del giorno 28 Marzo le comunico le notizie relative all'incremento dei lavori per l'organizzazione della scuola motorizzazione della Cecchignola:

Il Genio Militaredeve ancora iniziare i seguenti lavori:

a) chiusura dei varchi esistenti nei muri di finta che suddividono i lotti di fabbricati;
b) impianto delle cucine secondo i piani prestabiliti;
c) sistemare secondo accordi presi col Col. Nigri, il ripristino delle latrine;
d) provvedere alla messa in opera di finestre e di porte dei vari locali adibiti sia a camerate che a laboratori;
e) riattivazione di condutture per l'acqua: per i lavatoi truppa, per le latrine ecc.;
f) riattivazione dell'impianto elettrico per illuminazione dei vari locali e per forza motrice;
g) messa in opera di adeguato impianto telefonico con centralino ed apparecchi dislegati nei vari locali nei quali hanno sede i vari comandi di reparto dipendenti e lontani dal comando della scuola.

E' assolutamente necessario che i lavori sopra detti vengano non soltanto subito iniziati, ma che vengano condotti con quei mezzi qdeguati al tempo ancora rimasto disponibile per il loro compimento che ormai è di un solo mese.

Mentre si sta provvedendo a far affluire alla scuola il materiale necessario per l'attrezzatura delle aule didattiche delle varie specializzazioni, procedono con successo gli accordi per l'istituzione dei corsi di specializzazione da attuarsi in Roma in ausilio a quelli che si svolgeranno dentro la scuola della Cecchignola con la Fiat le R.R.Scuole Industriali ed il R.A.C.I.-

Su tale argomento le fornirò presto ulteriori notizie.-

Nel ringraziarla per il suo interessamento le invio i miei migliori saluti.

Dev.mo
Ten.Col. Antonio Merani

Antonio Merani

3

TRANSLATION
0972
4/4

1100

6183

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il Genio Militare deve ancora iniziare i seguenti lavori:

a) chiusura dei varchi esistenti nei muri di cinta che suddividono i lotti di fabbricati;
b) impianto delle cucine secondo i piani prestabiliti;
c) sistemare secondo accordi presi col Col. Nigri, il ripristino delle latrine;
d) provvedere alla messa in opera di finestre e di porte dei vari locali adibiti sia a camerate che a laboratori;
e) riattivazione di condutture per l'acqua: per i lavatoi truppa, per le latrine ecc.;
f) riattivazione dell'impianto elettrico per illuminazione dei vari locali e per forza motrice;
g) messa in opera di adeguato impianto telefonico con centralino ed apparecchi dislegati nei vari locali nei quali hanno sede i vari comandi di reparto dipendenti e lontani dal comando della scuola.

E' assolutamente necessario che i lavori sopra detti vengano non soltanto subito iniziati, ma che vengano condotti con quei mezzi qdeguati al tempo ancora rimasto disponibile per il loro compimento che ormai è di un solo mese.

Mentre si sta provvedendo a far affluire alla scuola il materiale necessario per l'attrezzatura delle aule didattiche delle varie specializzazioni, procedono-con successo-gli accordi per l'istituzione dei corsi di specializzazione da attuarsi in Roma-in ausilio a quelli che si svolgeranno dentro la scuola della Cecchignola-con la Fiat le R.R.Scuole Industriali ed il R.A.C.I.-

Su tale argomento le fornirò presto ulteriori notizie.-

Nel ringraziarla per il suo interessamento le invio i miei migliori saluti.

Dev.mo
Ten.Col. Antonio Morani

Antonio Morani.

3

TRANSLATION
Item 0970
4/4
1100
5/4

6183

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Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

ME/2

(32)

SUBJECT : Training - Officers.

Land Forces Sub Commission, A.C.
(M.M.I.A.) R O M E
ME/22
4 April 1946

D.A.D.M.E.,
12 E.I.U.

Herewith translated copy of letter from Ministry of War, together with syllabi.

Please make such extracts from the syllabi as you desire, and return by end of April.

Please acknowledge receipt.

AB

Lt.Col., A.D.M.E.
M.M.I.A.

AB/ere

R
4/4/46

See Folios
54, 48

6182

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Subject :- Training of Armourers.

Land Forces Sub Comm, A.C.
(M.M.I.A.) ROME.
ME/22
4 April.46.

Ministry of War.

Ref our ME/22 of 5th March and your 1678/R/4 of 15th March.

It seems that the students on this course are mostly from the 1924 class and that, of the remainder, the majority are in the 1922 and 1923 classes.

It is unfortunate that no long service personnel preferably with prior experience of armourers or gun smiths work were available to be sent on this course prior to posting to C.A.R's, as it seems that the present students find difficulty in assimilating the instruction given. Are suitable personnel available in Arsenals etc ?

If the C.A.R's are not provided with competent armourers, it is feared that accidents (possibly fatal.) may occur when ammunition is used in weapons which have become out of adjustment through lack of inspection or repair.

AB/cam.

A Blunt
Lt. Col.
A.D.M.E.
M.M.I.A.

Copy to : G(Trg)
'Q'
D.A.D.M.E. 12 BLU.

6181

Page 11

ME 22.

29

SYLLABUS FOR ARMOURERS

First 3 weeks As per timetable Appendix 'A'.

4th. week

Practical manufacture of small parts.

Case hardening.

Manufacturing, hardening, and tempering of small springs.

5th. & 6th. week

Instruction. Demonstration. Stoppages. Defects. Re-building Tare-ing of following arms.

(i) Rifle
(ii) Thompson S.M.G.
(iii) L.M.G. Bren.
(iv) 3" Mortar
(v) 2" Mortar
(vi) P.I.A.T.

7th. week

Practical ~~re~~ inspection of arms and repairs including execution of fitting new fore ends and stocks. Foresights and Tare-ing.

8th. week

Revision and examination. Practical and written.

6180

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

SYLLABUS FOR GUN MECHANIC (BRITISH GUN FITTER)

1.

(i) Elementary mathematics.

(~~ii~~) ~~Instruction for measurement of guns.~~

(ii/~~iii~~) Elementary analysis of metals and alloys to include hardening and tempering and case hardening.

(iii) (~~iv~~) Elementary mechanical drawing and its interpretation.

(iv) (~~v~~) Grinding and fettling of cutting edges.

(v) (~~vi~~) Practical training with the hammer, chisel, ~~and~~ file, and other hand tools.

(vi) (~~vii~~) Soldering.

2. GENERAL DESCRIPTION OF THE GUN

Assembly and disassembly of:-

(a) Firing mechanism.

(b) Breech mechanism.

(c) Elevating and Traversing Gears.

(d) Recoil and recuperation Mechanism. Faults, Symptoms & Remedies.

(e) Sighting Gears and Sights. Cross-levelling etc. Correction for drift, and want of level of axle.

(f) Care and maintenance of the different gears.

(g) Small repairs and substitution of parts.

(h) Standards of interchangability.

(j) Use of gauges held by the unit

(K) Use of tools held by the unit

3. Test

Practical execution of repairs nominated by instructor

(vi) ~~(viii)~~ Soldering.

2. GENERAL DESCRIPTION OF THE GUN

Assembly and disassembly of:-

(a) Firing mechanism.

(b) Breech mechanism.

(c) Elevating and Traversing Gears.

(d) Recoil and recuperation Mechanism. Faults, Symptoms, Remedies.

(e) Sighting Gears and Sights. Cross-levelling etc.
Correction for drift, and want of level of axle.

(f) Care and maintenance of the different gears.

(g) Small repairs and substitution of parts.

(h) Standards of interchangability.

(j) Use of gauges held by the unit

(K) Use of tools held by the unit

3. Test

Practical Execution of repairs nominated by instructor

6179

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Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TIMETABLE FOR CIVILIANS

6th. Week

6.7.8.

DAY	0715 - 0815	0815 - 0930	0930 - 1030	1030 - 1100	1500 -
Monday	Rebuilding gun	Adjusting runout	Checking oil in buffer. Pulling back.	Sight setting and testing.	Description Methods wear. Identifi
Tuesday	40 m/a Description of gun and functions.	of parts. Automatic feed and	Recoil operation. A type auto-loader.	B type Autoloader.	Stripping Breech bl mechanis
Wednesday	Stripping down continued - naming of parts as per identification list.				
Thursday	Detailed description of forward motion - stoppages - points of wear.				
Friday	Detailed description of forward motion - stoppages - points of wear.				
Saturday	REVISION				

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TIMETABLE FOR GUN MECHANICS

6th. Week - 6 hr. (cont'd)

0815 - 0930	0930 - 1030	1030 - 1100	1500 - 1630
arting runout	Checking oil in buffer. Filling back.	ight setting and esting.	escription of elevating gear. ethods of rectifying for ear. dentification of parts.
parts. comatic feed	Recoil operation. A type auto - loader.	B type Autoloader.	tripping down casing breech mechanism - firing echanism.
own continued - testing of parts as per identification list.			
scription of Rearward motion - stoppages - points of wear.			
scription of Forward motion - stoppages - points of wear.			

REVISION

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TIMETABLE FOR GUN MECHANICS

4th. [illegible]

Day	0715 - 0815	0815 - 0930	0930 - 1030	1030 - 1100	1100 -
Monday	Description of Breech mechanism. Naming of parts.	Stripping and assembling Breech mechanism.	Description of Firing mechanism. Naming of parts.	Stripping and assembling Firing mechanism.	Description Stripping of Barrel
Tuesday	Description of carriage.	Stripping down. Naming parts.	Lecture on wheels and bearings. Naming parts.	Stripping down and re-building wheel bearings.	Description Stripping rebuilding.
Wednesday	Lecture on recoil absorption and re-cuperation.	Stripping down. Recoil assembly.	Naming parts and rebuilding - recharging.	Examination of parts for wear. Faults and symptoms.	Lecture on traversing. Stripping Rebuilding.
Thursday	Rebuilding gun.	Pulling back adjusting runout. Faults and symptoms.	Sight testing. Lecture. Principles. A of S + TB = OE	Practical Sight testing.	Revision. Identificat Illustrati
Friday	Description of breech mechanism. Nomenclature.	Description of Semi Auto and parts.	Stripping down breech mechanism and rebuilding.		Description
Saturday	Stripping down complete gun to elements.				

17 pdr.

Unclassified E.O. 12065 Section 3-402/NNDC NO. 785020

EXERCISES FOR GUN MECHANICS

4th. Week - 25 pdr.

67

0815 - 0930	0930 - 1030	1030 - 1100	1300 - 1630
Stripping and assembling breech mechanism.	Description of firing mechanism. Naming of parts.	Stripping and assembling firing mechanism.	Description of piece. Stripping and re-assembling of barrel and muzzle brake.
Stripping down. Naming parts.	Lecture on wheels and bearings. Naming parts.	Stripping down and re-building wheel bearings.	Description of sighting gear. Stripping down - nomenclature rebuilding.
Stripping down. Recoil assembly.	Naming parts and rebuilding - recharging.	Examination of parts for wear. Faults and symptoms.	Lecture on elevating gears - traversing gears. Stripping down. Nomenclature. Rebuilding.
Pulling back adjusting runout. Faults and symptoms.	Sight testing. Lecture. Principles. A of S + TE = DE	Practical Sight testing.	Revision. Identification from Parts list. Illustrations and text.
Description of and Auto and parts.	Stripping down breech mechanism and rebuilding.		Description of basic structure.
down complete gun to elements.			

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TIME TABLE FOR GUN MECHANICS

5th Week -

Day	0715 - 0815	0815 - 0930	0930 - 1030	1030 - 1100	1500
Monday	Description of Trail and Axle. Trail locking devices open and closed.	Examination by students of Trail and Bracket supporting saddle.	Description of traversing gears. Parts.	Stripping down - note points of wear	Identified with parts
Tuesday	Study of Elevating gear.	Practical on elevating gear. Parts.	Rebuilding elevating gear.	Rebuilding traversing gear.	Identification with parts
Wednesday	Rebuild complete gun.	Firing breech adjustments to run out.	Sighting gears and principles of testing.	Practice at sight setting and testing.	Operation of adjustments. Revision. Similarity 25 pdr.
Thursday	REVISION OF 17 pdr. and 25 pdr.				

6 pdr.

Friday	Description of breech mechanism.	Practical breech mechanism.	Description of Firing mechanism.	Practical Firing mechanism.	Stripping
Saturday	Description of recoil assembly.	Method of stripping recuperator.	Examination of parts for wear.	Rebuilding recoil assembly.	

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TIME TABLE FOR GUN MECHANICS

5th Week - 17 pdr. (cont'd)

0815 - 0930	0930 - 1030	1030 - 1100	1500 - 1630
Examination by students of Trail and rocket supporting cradle.	Description of traversing gears. Parts.	Stripping down - note points of wear	Identification of parts with parts list.
Practical on elevating gear. Parts.	Rebuilding elevating gear.	Rebuilding traversing gear.	Identification of parts with parts list.
Firing lock adjustments to run out.	Sighting gears and principles of testing.	Practice at sight setting and testing.	Operation of Semi Auto Adjustments. Revision. Similiarity of Recoil 25 pdr.
REVISION OF 17 pdr. and 25 pdr.			
Practical Firing mechanism.	Description of Firing mechanism.	Practical Firing Mechanism.	Stripping down complete gun.
Method of stripping recuperator.	Examination of parts for wear.	Rebuilding Recoil assembly.	

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TENTABLE FOR GUN MECHANICS

Day	0715 - 0815	0815 & 0930	0930 - 1030	1030 - 1100	1500
Monday	Removal of Barrel. How secured in situ. Recuperator spring.	Removal of balancing springs.	Removal of Buffer cylinder and stripping.	Rebuilding Buffer cylinder.	Runding Replace Barrel arator
Tuesday	Description of elevating gears.	Dangers of interfering with, if balancing springs not locked or if Barrel in situ.	Description of traversing gears.	Removal of pedestal from platform.	Examine pitted
Wednesday	Rebuilding of complete gun after identifying parts from list				
Thursday	Description of Jack Arms and Jacks - Axle locking devices - pitfalls for the uninitiated.				
Friday	Sighting gears	Secs. IV & V & VI.	Sight setting	Sight testing	Revision
Saturday	Introduction of Gauges.				

Declassified E.O. 12065 Section 3-402/NNDU NO. 785020

TABLE FOR GUN MECHANICS

7th. Week

	0815 & 0930	0930 - 1030	1030 - 1100	1100 - 1630
	Removal of balancing springs.	Removal of Buffer cylinder and stripping.	Rebuilding Buffer cylinder.	Mending of parts. Replacing and removing Barrel with and without Recuperator spring.
	Dangers of interfering with, if balancing springs not locked or if Barrel in situ.	Description of traversing gears.	Removal of pedestal from platform.	Examination for cracked or pitted ball tracks.

Complete gun order identifying parts from list

Jack Arms and Jacks - Axle locking devices - pitfalls for the uninitiated.

8th. V & VI.	Sight setting	Sight testing	Revision
Introduction of Guns.			

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

folio 28
transferred to ME/25
on 23 May 46
@B

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

DE/22

Subject :- Training of Repair Personnel.

(27)

Land Forces Sub Comm, A.C.
(M.M.I.A.) ROME.
DE/22
25 March.46.

D.A.D.M.E., 12.BLU.

See Sheet 3b

Ref my DE/22 of 22nd March.

The detail in line 4, under Scuola di Artiglieria, Bracciano, should read :-

"Course for technical inspection of artillery for."

Please delete existing line 4 and substitute the above.

AB/ccm.

Lt. Col.
A.D.M.E.
M.M.I.A.

Copy : to G (Trg)
Q.

617

= COPIA = D/L

Priority II

ME/22

MINISTERO DELLA GUERRA
STATO MAGGIORE REGIO ESERCITO
III.Servizi - Sez.Art. e Genio

N. 4/513/Serv. di prot. Roma, 1o marzo 1940

OGGETTO: Visita tecnica e riparazioni al materiale di armamento britannico in servizio nel R.E.-

52

ALLA LAND FORCES SUB COMMISSION A.C. (M.M.I.A.)
(seguito lett. 4/220/Serv.del 9/2)c.a. e riferim.accordi presi nella riunione tenuta presso codesta Missione il 25/2 c.a.)

= R O M A =

1700
21/3

e, per conoscenza :

ALL'ISPETTORATO DELL'ARMA DI ARTIGLIERIA
ALLA DIREZIONE GEN.ARTIGL. E MOTORIZZAZIONE

= S E D E =
= S E D I =

1. Riparazione delle artiglierie e delle armi portatili.

Le riparazioni di lieve entità saranno effettuate dalle officine mobili delle Divisioni di ftr. e degli armaioli dei corpi per le truppe non indivisionate.

Le riparazioni di media entità si propone che vengano eseguite :

a) per artiglierie :

presso la Sezione Arsenale di Piacenza;

b) per le armi portatili:

presso le Direzioni di artiglierie di :

Torino	per i Comandi militari territoriali	I e	II
Venezia	" " " " "	IV e	V
Bologna	" " " " "	III e	VI
Roma	" " " " "	VII e	VIII
Napoli	" " " " "	IX e	X
Messina	" " " " "	XI	

e presso la fabbrica d'armi R.E. di Terni per quelle riparazioni più complesse che le Direzioni di artiglieria predette non fossero eventualmente in grado di eseguire.

Nella designazione delle predette Direzioni di artiglieria e nell'assegnazione alle stesse dei vari Comandi militari territoriali si è tenuto conto anche delle prevedibili esigenze future.

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ALLA LAND FORCES SUB COMMISSION A.C. (M.M.I.A.)
(seguito lett. 4/220/Serv.del 9/2)c.a. e
riferim.accordi presi nella riunione tenu
ta presso codesta Missione il 25/2 c.a.)-

e, per conoscenza :

ALL'ISPETTORATO DELL'ARMA DI ARTIGLIERIA
ALLA DIREZIONE GEN.ARTIGL. E MOTORIZZAZIONE

= R O M A =

1700
21/3

= S E D E =
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Venezia	" "	"	"	"	IV	e	V
Bologna	" "	"	"	"	III	e	VI
Roma	" "	"	"	"	VII	e	VIII
Napoli	" "	"	"	"	IX	e	X
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Nella designazione delle predette Direzioni di artiglieria e nell'assegnazione alle stesse dei vari Comandi militari territoriali si è tenuto conto anche delle prevedibili esigenze future.

Gli organici delle predette Direzioni di artiglieria e della Fabbrica d'armi R.E. di Terni sono sufficienti per effettuare il nuovo lavoro.

./.

6173

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Per l'eventuale necessità di grandi riparazioni sarà richiesta - come convenuto - la sostituzione dell'arma.

2. Addestramento del personale tecnico necessario.

a) Si propone che vengano istituiti due corsi :

- il primo, per l'addestramento del personale tecnico per la visita delle artiglierie e delle munizioni relative presso la Scuola di artiglieria in Bracciano;
- il secondo, per l'addestramento del personale per le riparazioni delle artiglierie e delle armi portatili, presso la Scuola meccanici e operai di artiglieria in Civitavecchia;

b) Si propone che i corsi predetti abbiano la durata di 6 settimane e che quello per il personale addetto alle riparazioni venga effettuato in 2 turni che dovrebbero avere inizio rispettivamente il 1° aprile e il 20 maggio c.a.

c) Personale proposto per partecipare ai corsi:

- corso per la visita tecnica delle artiglierie :

ufficiali del servizio tecnico art.	5	corso in unico turno
capi tecnici	5	
capi operai specializzati	5	1°/4 - 15/5
interpreti	1	
T o t a l e	16	

- corso per riparazione artiglierie e armi portatili :

ufficiali di artiglieria	18	49 elementi per ciascuno dei due turni del corso che dovrebbero avere rispettivamente inizio il 1/4 e il 20/5. I 5 interpreti seguiranno entrambi i turni.
sottufficiali	10	
capitecnici	14	
operai specializzati	56	
interpreti	5	
T o t a l e	103	

Il personale da inviare ai corsi sarà tratto da quello già in organico agli stabilimenti ed alle Direzioni di Artiglieria che dovranno effettuare le visite e le riparazioni.

3. Mezzi tecnici e parti di ricambio per verifica e riparazione delle artiglierie ed armi portatili.

Sono stati convocati a Roma gli ufficiali capi delle officine mobili riparazioni delle 5 Divisioni e dai rapporti ricevuti è emersa la necessità di completare al più presto le dotazioni organiche degli

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delle artiglierie e delle munizioni relative presso la Scuola di artiglieria in Bracciano;

- il secondo, per l'addestramento del personale per le riparazioni delle artiglierie e delle armi portatili, presso la Scuola meccanici e operai di artiglieria in Civitavecchia;

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ufficiali del servizio tecnico art.	3	corso in unico turno
capi tecnici	3	
capi operai specializzati	5	
interpreti	1	1°/4 - 15/5
Totale	10	

- corso per riparazione artiglierie e armi portatili :

ufficiali di artiglieria	18	49 elementi per ciascuno
sottufficiali	10	dei due turni del corso
capitecnici	14	che dovrebbero avere ri-
operai specializzati	50	spettivamente inizio il
interpreti	5	1/4 e il 20/5.
Totale	103	I 5 interpreti seguiranno entrambi i turni.

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./.

617

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La Direzione Generale artiglieria e motorizzazione segnalerà quanto prima le necessità attuali dell'officina di ciascuna Divisione, di quella delle Scuole Centrali nonchè quelle per dotare i capi armaioli dei C.A.R. di una congrua aliquota di mezzi tecnici e di parti di ricambio.

4. Si prega di voler comunicare con cortese sollecitudine le decisioni che saranno adottate.-

IL GENERALE ADDETTO
F/to Giorgio Liuzzi

P.C.C.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

4. Si prega di voler comunicare con cortese sollecitudine le decisioni che saranno adottate.-

IL GENERALE ADDETTO
F/to Giorgio Liuzzi

P.C.C.

61/1

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

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Subject:- Italian artillery training.

Sheet 2.

(25)

SECTION I. BASIC TRAINING.

4. Solute Italian Commitments requiring British Instruction.

Type of Course.	Estimated Duration. Period	No. of courses	Estimated No. of Students.	Object of Course.	Proposed Location of Course.
R.S.Survey. C.	7 weeks.	1	20.	A.To give initial training to Italian gunnery instructors and R.S.O's in British Royal Survey methods. B.To give sufficient additional survey training to render Italian Arty capable of co-operation with British Arty.	Civitavecchia
5.5" Med. Conversion Course.	3½ weeks.	2	20.	To give initial training to Italian gunnery instructors in British Med. Arty.	Civitavecchia
H.A. Course.	3½ months.	2	20.	To give initial training to Italian gunnery instructors in British H.A.	Civitavecchia

6170

GENERAL HEADQUARTERS

CENTRAL MEDITERRANEAN FORCES

RECEIVED 3216

25

ESD/81/3B

8 Mar 46

Tel No Freedom 254

SUBJECT : Special Trg Eqpt for Italian Army.

TO : Land Forces Sub Commission AC, (LMIA). Q.

Copy To : G - 3 AFHQ
G(Trg)
Q
RE
Ord
ESD/81/3A

21.

Ref our ESD/81/3B of 4 Mar.

1. Para 3(a) and 3(c) are cancelled.

2. The CMF School of Arty is closing down on completion of current courses.

Two more mobile trg teams are to be formed. There will then be three teams to cover all theatre requirements (One Fd, One Fd Med and Hy, and One AA).

3. You will appreciate that these teams will have a full programme, and may not be available to you to the extent that you may wish.

4. You are requested to send very early notification of your requirements in respect of trg teams for instruction in Med and Hy AA duties direct to G(Trg) at this HQ (copy to RA).

5. Ref para 5

Please inform this branch (copy to RE) as soon as possible what trg you will require giving dates, numbers, involved, etc.

6. Ref para 6

6169

You are requested to submit these lists as soon as possible.

20.3.46

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

G(Trg)
Q
RE
Ord
ESD/81/3A

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6169

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203.4.6
20

WH/as/G(SD)

M.W.M. Mac LEOD,
Major General,
Chief of General Staff,

A Q 107

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

CENTRAL MEDITERRANEAN FORCES

ESD/81/5B

Tel No Freedom 254

4 Jan 46.

SUBJECT . Special Trg Eqpt for Italian Army.

TO : AFHQ

COPY TO . G - 3 AFHQ (ref your 126/1 of 21 Dec 45)
G(Trg) (ref your AFG/3, of 19 Dec and RA letter 352/01/4 of 19 Feb)
Q (for action para 5(a) and (b))
RA (ref your 352/01/4 of 19 Feb and conversation O'BRIEN - INGLIS of 21 Feb)
RE
Ord

Ref your ED/109 of 6 Dec (not seen by G, RA, RE or Ord)

1. Para 5 reads

"The Ministry of War have requested verbally that, in spite of the fact that no such units exist in the Interim Army, they should be allowed to maintain a small nucleus of officers and men trained for Fd Arty, Hy AA and Hy Bridging. If you are in agreement with this policy, small quantities of suitable eqpt would be required to be held by the respective schools. This eqpt is NOT included in the Staff Tables prepared."

2. It appears that the policy agreed between AFHQ and CMF has never been published.

It is that:

(a) The Italian Army will be allowed to maintain a small nucleus of officers and men (within the authorised ceiling) trained for Fd Arty, Hy AA and Hy Bridging duties.

(b) No trg in or transfer of ancillary eqpt of a secret nature will be made without War Office sanction, which will be requested by this HQ when the requirements are known.

(c) A sufficient quantity of eqpt and spares, stores and ammunition for training, if available, will be transferred to the Italian Army for the purpose of carrying out this special training.

Training facilities will be given by us in so far as this can be done without prejudice to British Military requirements.

6168

3. Fd Artr

Declassified E.O. 12065 Section 3-402/NNDC WO. 785020

RE
Ord

Ref your SD/109 of 6 Dec (not seen by [illegible], RE or Ord)

1. Para 5 reads

"The Ministry of War have requested verbally that, in spite of the fact that no such units exist in the Italian Army, they should be allowed to maintain a small nucleus of officers and men trained for ed Arty, Hy AA and Hy Bridging. If you are in agreement with this policy, small quantities of suitable eqpt would be required to be held by the respective schools. This eqpt is NOT included in the Staff Tables prepared."

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Training facilities will be given by us in so far as this can be done without prejudice to British military requirements.

6168

3. ed Arty

(a) Trg teams cannot be made available
(b) The necessary eqpt will however be given to the Italian Army, Cancelled.
(c) Certain facilities for the training of Italians at the C of School of Artillery exist at present and demands should be sent to G(Trg) branch at this HQ for co-ord with demands from other sources.

/...s.....

Copies sent to [illegible]

I 9107

4/3

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(d) As no trg in Med Arty is now being done at the School - no eqpt is held here.

(e) Therefore all eqpt will have to be provided by the Italian Army from that given to them under para 3(b)

4. Hy Aa

Trg teams can be made available part time at present. Demands should be sent to G(Trg) this HQ who will make the final decision regarding allotment of trg teams.

5. Hy Bridging

It appears that this refers to Pontoon bridging with Bailey eqpt.

It is unlikely that such eqpt will be available, but Trg facilities will probably be available at British establishments or formations.

6. Eqpt, Ammn and Stores required

Please Submit complete detailed lists of what you require under each head - for consideration by this HQ.

WMI/as/G(SD)

M.W.M. Mac LEOD,
Major General,
Chief of General Staff.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

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WMI/as/G(SD)

M.W.M. Mac LEOD,
Major General,
Chief of General Staff.

6167

Declassified E.O. 12065 Section 3-402/NNDC HQ. 785020

(24)

Subject:-Training of Repair Personnel.

Land Forces Sub Comm,A.C.
(M.M.I.A.) ROME.
ME/22
22nd March.46.

D.A.D.M.E.,12BLU.

26

Ministry of War in their 4/513/Serv di prot,of 15 March advise that they propose to run the following courses:-

Scuola di Artiglieria,Bracciano.

Course for technical inspection of ~~small arms~~ artillery for

5 officers of the artillery technical service
5 "capi tecnici" (civilians)
5 "capi operai specializzati" (civilians)
1 interpreter

from 1st April to 15th May.

Please prepare a syllabus for this course bearing in mind that these personnel are supposed to be experienced in gun work.In addition to gauging measurement,and taking impressions, they should be allowed to strip and assemble recoil systems,sighting gears and linkages in an endeavour to turn them into fully competent artificers. Modifications and E.M.E.R's should also be explained to them.

Scuola meccanici é operai di Artiglieria,Civitavecchia.

Courses for repair of artillery and small arms in two parts (the first from 1st April till 20th May) for (total):-

18 artillery officers
10 N.C.O's
14 capi tecnici (civilians)
56 operai specializzati (civilians)
5 interpreters.

6166

These should be trained as gun fitters using the

Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

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Courses for repair of artillery and small arms in two parts (the first from 1st April till 20th May) for (total):-

18 artillery officers
10 N.C.O's
14 capi tecnici (civilians)
50 operai specializzati (civilians)
5 interpreters.

6166

These should be trained as gun fitters using the syllabus in my ME/22 of 22 March 1946 as a guide.

Lt. Col.,
A.D.M.E.
M.M.I.A.

AB/cam

Copy to :- 'G' (Trg) Hart Q

22/3/46

R

Declassified E.O. 12065 Section 3-402/NNBC NO. 785020

Subject ;- Training of Artillery Repair Personnel.

23

Land Forces Sub Comm,A.C.
(M.M.I.A.) ROME
ME/22
22 March.46.

Direzione Generale
Artiglieria e Motorizzazione.
Ministry of War.

Reference minutes of meeting held on 26 Feb.46. forwarded under our Q.138 of 12 Mar.46 and to-day's conversation with Col. Avallone.

Herewith proposed syllabi for the training of

(a) gun fitters
(b) armourers

and a possible timetable which may be of use to you.

In the case of the inexperienced personnel coming to the Artillery Repair Training Centre from the C.A.R's it is recommended that you try to select at the C.A.R's men who have had experience as mechanics, and that you spend the first three weeks of their training at the Centre in giving them the Selection Course to discover if they have any practical mechanical aptitude.

In the case of the personnel being sent to the Centre for the "corso per riparazione artiglierie e armi portatile"(mentioned in your 4/513/Serv di prot of 15 Mar.46) this three week Selection course should not be needed as they are understood to be experienced men.

It is not proposed at this stage to send you a Syllabus for the "corso per la visita tecnica delle artiglierie", as this will be prepared by 12 BLU at CESANO.

AB/fr

Lt. Col.
A.D.M.E.
M.M.I.A.

Copy to :- D.A.D.M.E 12 BLU
G(Trg)

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

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AB/fr

Copy to :- D.A.D.M.E. 12 BLU
G(Try) - less syllabi & timetable

12 Blu 6165

Lt. Col.
A.D.M.E.
M.M.I.A.

22/3/46

Declassified E.O. 12065 Section 3-402/NND NO. 785020

SELECTION COURSE

TIMETABLE (First three weeks)

ALL MECHANICS

1. Students to be selected during this period for training as:-

Armourer

Gun Fitter

TIMETABLE(First week)

Day	0800 - 0915	0930 - 1030	1330 - 1630
Monday	Mathematics	Nomenclature and correct uses of tools and appliances	Elementary marking off. Use of hack-saw
Tuesday	Mathematics	Introduction of precision intruments.	Practical filing. Demonstration talk on lathe and accessories.
Wednesday	Mathematics	Introductory talk on tools with cutting edges.	Use of chisel to a line. Setting of work in lathe.
Thursday	Classroom exercises with micrometer and vernier.	Grinding and fettling tools with cutting edges.	Marking off - drilling and tapping. First steps in outside turning. Adjustments of tool height etc.
Friday	Principles of hardening and tempering tool steel.	Design and shape of tools	Firing and simple forging.

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6164

TIMETABLE (First week)

Day	0800 - 0915	0930 - 1030	1330 - 1630
Monday	Mathematics	Nomenclature and correct uses of tools and appliances	Elementary marking off. Use of hack-saw
Tuesday	Mathematics	Introduction of precision intruments.	Practical filing. Demonstration talk on lathe and accessories.
Wednesday	Mathematics	Introductory talk on tools with cutting edges.	Use of chisel to a line. Setting of work in lathe.
Thursday	Classroom exercises with micrometer and vernier.	Grinding and fettling tools with cutting edges.	Marking off - drilling and tapping. First steps in outside turning. Adjustments of tool height etc.
Friday	Principles of hardening and tempering tool steel.	Design and shape of tools	Firing and simple forging.
Saturday	REVISION		

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Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

SELECTION COURSE
TIMETABLE (Second week)

Day	0800 - 0915	0930 - 1030	1330 - 1630
Monday	Elementary analysis of ferous metals. Iron to high carbon steel.	Effects of heat treament on composition of ferrous metals.	Forging of tools.
Tuesday	Principles of hard and soft soldering. Use of fluxes etc.	Practical soldering	Practical soldering
Wednesday	Mechanical drawing. Use of instruments and interpretation.		Tool forging and tempering.
Thursday	Mechanical drawings of actual work to be produced in Workshops.		Commencment of work as per drawing.
Friday	Continuat n of yesterday's drawing.		Continuation of practical.
Saturday	REVISION		

Declassified E.O. 12065 Section 3-402/NNDB NO. 785020

	and soft soldering. Use of fluxes etc.	
Wednesday	Mechanical drawing. Use of instruments and interpretation.	Tool forging and tempering.
Thursday	Mechanical drawings of actual work to be produced in Workshops.	Commencement of work as per drawing.
Friday	Continuation of yesterday's drawing.	Continuation of practical.
Saturday	REVISION	

6163

Declassified E.O. 12065 Section J-402/NNDC NO. 785020

SELECTION COURSE.

TIMETABLE (Third week)

Day	0800 - 0915	0930 - 1030	1330 - 1630
Monday	Nomenclature of parts in a machine e.g. bush, bearing, journal, thrustface, coupling etc.	Principles of rivets and rivetting.	Resumption of last week's practical.
Tuesday	Practical drilling and rivetting.	Exercises with sheet metal and soldering.	Continuation of above.
Wednesday	Practical exercises set by the Instructor.		
Thursday	As above.		
Friday	As above		
Saturday	Examination for all.		

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Tuesday	Practical drilling and rivetting.	Exercises with sheet metal and soldering.	Continuation of above.
Wednesday	Practical exercises set by the Instructor.		
Thursday	As above.		
Friday	As above		
Saturday	Examination for all.		

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Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TIMETABLE FOR GUN MECHANICS

4th Week - 25 pdr

Day	0715 - 0815	0815 - 0930	0930 - 1030	1030 - 1100	1500 - 1
Monday	Description of Breech mechanism. Naming of parts.	Stripping and assembling Breech mechanism.	Description of Firing mechanism. Naming of parts.	Stripping and assembling Firing mechanism.	Descript Strippin of barre
Tuesday	Description of carriage.	Stripping down. Naming of parts.	Lecture on wheels and bearings. Naming parts.	Stripping down and rebuilding wheel-bearings.	Descripti gear. Str nomenclat
Wednesday	Lecture on recoil absortion and recuperation.	Stripping down. Recoil assembly.	Naming parts and rebuilding - recharging.	Examination of parts for wear. Faults and symtons.	Lectures traversin down. Nom building
Thursday	Rebuilding gun. .	Pulling back adjusting runout. Faults and symptons.	Sight testing Lecture. Principles. A of S + TE = QE.	Practical sight-testing.	Revision. from part ns and te
	17 pdr.				
Friday	Description of breech mechanism. Nomenclature	Description of Semi Auto and parts.	Stripping down breech mechanism and rebuilding.		Descriptio structure.
Saturday	Stripping down complete gun to elements.				

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TIMETABLE FOR GUN MECHANICS

4th Week - 25 pdr.

0815 - 0930	0930 - 1030	1030 - 1100	1500 - 1630
Stripping and assembling Breech mechanism.	Description of Firing mechanism. Naming of parts.	Stripping and assembling Firing mechanism.	Description of piece. Stripping and re-assembling of barrel and muzzle break.
Stripping down. Naming of parts.	Lecture on wheels and bearings. Naming parts.	Stripping down and rebuilding wheel-bearings.	Description of sighting gear. Stripping down - nomenclature rebuilding.
Stripping down. Recoil assembly.	Naming parts and rebuilding - re-charging.	Examination of parts for wear. Faults and symtons.	Lectures on elevating gears - traversing gears. Stripping down. Nomenclature re-building
Pulling back adjusting runout. Faults and symptons.	Sight testing. Lecture. Principles. A of S + TE = QE.	Practical sight-testing.	Revision. Identification from parts list. Illustrations and text.
Description of Semi Auto and parts.	Stripping down breech mechanism and rebuilding.		Description of basic structure.
Down complete gun to elements.			

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TIMETABLE FOR GUN MECHANICS

5th Wee

Day	0715 - 0815	0815 - 0930	0930 - 1030	1030 - 1100	
Monday	Description of Trail and Axle. Trail locking devices open and closed.	Examination by students of Trail and Bracket supporting saddle.	Description of traversing gears. Parts.	Stripping down- note points of wear.	Ide wit
Tuesday	Study of Elevating gear.	Practical on elevating gear. Parts.	Rebuilding elevating gear.	Rebuilding traversing gear.	Ide wit
Wednesday	Rebuild complete gun.	Pulling back adjustments to run out.	Sighting gears and principles of testing.	Practice at sight setting and testing.	Ope Adj Rev Sc 25
Thursday	REVISION OF 17 pdr. and 25 pdr.				
	6 pdr.				
Friday	Description of breech mechanism.	Practical breech mechanism.	Description of Firing mechanism.	Practical Firing mechanism.	Str Gun
Saturday	Description of recoil assembly.	Method of stripping recuperator.	Examination of parts for wear.	Rebuilding Recoil assembly.	

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Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TIMETABLE FOR GUN MECHANICS

5 th Week - 17 pdr. (cont'd)

	0815 - 0930	0930 - 1030	1030 - 1100	1500 - 1630
rail vices	Examination by students of Trail and Bracket supporting saddle.	Description of traversing gears. Parts.	Stripping down-note points of wear.	Identification of parts with parts list.
ag	Practical on elevating gear. Parts.	Rebuilding elevating gear.	Rebuilding traversing gear.	Identification of parts with parts list.
	Pulling back adjustments to run out.	Sighting gears and principles of testing.	Practice at sight setting and testing.	Operation of Semi Auto. Adjustments. Revision. Sa ilarity of Recoil 25 pdr.

REVISION OF 17 pdr. and 25 pdr.

pdr.

Practical breech mechanism.	Description of Firing mechanism.	Practical Firing mechanism.	Stripping down complete Gun.
Method of stripping recuperator.	Examination of parts for wear.	Rebuilding Recoil assembly.	

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TIMETABLE FOR GUN MECHANICS

6th. W

Day	0715 - 0815	0815 - 0930 -	0930 - 1030	1030 - 1100	1500 - 1
Monday	Rebuilding gun.	Adjusting runout.	Checking oil in buffer. Pulling back.	Sight setting and testing.	Descript Methods Identifi
40 m/m					
Tuesday	Description of gun and functions.	of parts. Automatic feed &	Recoil operation. A type auto - loader.	B type Autoloader.	Strippin mechanis
Wednesday	Stripping down continued - naming of parts as per identification list.				
Thursday	Detailed description of Rearward motion - stoppages - points of wear.				
Friday	Detailed description of Forward motion - stoppages - points of wear.				
Saturday	REVISION				

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Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

TIMETABLE FOR GUN MECHANICS

6th. Week - 6 pdr. (cont'd)

0815 - 0930 -	0930 - 1030	1030 - 1100	1500 - 1630
Adjusting runout.	Checking oil in buffer. Pulling back.	Sight setting and testing.	Description of elevating gear. Methods of rectifying for wear. Identification of parts.
s. of parts. Automatic feed &	Recoil operation. A type auto - loader.	B type Autoloader.	Stripping down ordnance breech mechanism - Firing mechanism.
down continued - naming of parts as per identification list.			
escription of Rearward motion - stoppages - points of wear.			
escription of Forward motion - stoppages - points of wear.			
REVISION			

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TIMETABLE FOR GUN MECHANICS

7th Week

Day	0715 - 0815	0815 - 0930	0930 - 1030	1030 - 1100	15
Monday	Removal of Barrel. How secured in situ. Recuperator spring.	Removal of balancing springs.	Removal of Buffer cylinder and stripping.	Rebuilding Buffer cylinder.	Nam Rep Bar Rec
Tuesday	Description of elevating gears.	Dangers of interfering with, if balancing springs not locked or if Barrel in situ.	Description of traversing gears.	Removal of Pedestal from platform.	Exa or
Wednesday	Rebuilding of complete gun after identifying parts from list				
Thursday	Description of Jack Arms and Jacks - Axle locking devices - pitfalls for the uninitiated.				
Friday	Sighting gears	Mks.IV & V & VI.	Sight setting	Sight testing	Rev
Saturday	Introduction of Guages.				

61 58

Declassified E.O. 12065 Section 3-402/HWDC NO. 785020

TIMETABLE FOR GUN MECHANICS

7th Week

	0815 - 0930	0930 - 1030	1030 - 1100	1500 - 1630
	Removal of balancing springs.	Removal of Buffer cylinder and stripping.	Rebuilding Buffer cylinder.	Naming of parts. Replacing and removing Barrel with and without Recuperator spring.
t-	Dangers of interfering with, if balancing springs not locked or if Barrel in situ.	Description of traversing gears.	Removal of Pedestal from platform.	Examination for cracked or pitted ball tracks.

mplete gun after identifying parts from list

Jack Arms and Jacks - Axle locking devices - pitfalls for the uninitiated.

Mks.IV & V & VI.	Sight setting	Sight testing	Revision

Introduction of Guages.

SYLLABUS FOR GUN MECHANIC (BRITISH GUN FITTER)

1.

(i) Elementary mathematics

(ii) Elementary analysis of metals and alloys to include hardening and tempering and case hardening.

(iii) Elementary mechanical drawing and its interpretation.

(iv) Grinding and fettling of cutting edges.

(v) Practical training with the hammer, file, and other hand tools.

(vi) Soldering

2. GENERAL DESCRIPTION OF THE GUN

Assembly and disassembly of:-

(a) Firing mechanism.

(b) Breech mechanism.

(c) Elevating and Traversing gears.

(d) Recoil and recuperation Mechanism. Faults & Symptons and Remedies.

(e) Sighting Gears and Sights. Cross-levelling etc. Correction for drift, and want of level axle.

(f) Care and maintenance of the different gears.

(g) Small repairs and substitution of parts.

(h) Standards of interchangeability.

(j) Use of gauges held by the unit.

(k) Use of tools held by the unit.

3. Test.

Practical execution of repairs nominated by instructor.

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(vi) Soldering

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3. Test.

Practical execution of repairs nominated by instructor.

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SYLLABUS FOR ARMOURERS.

First 3 weeks

As per timetable Appendix

4th week

Practical manufacture of small parts.

Case hardening.

Manufacturing, hardening and tempering of small springs.

5th & 6th week

Instruction, demonstration. Stoppages. Defects. Re-building Zero-ing of following arms.

(i) Rifle
(ii) Thompson S.M.C.
(iii) L.M.G. Bren.
(iv) 3" Mortar
(v) 2" Mortar
(vi) P.I.A.T.

7th week.

Practical inspection of arms and execution of repairs including fitting new fore ends and stocks. Foresights and Zero-ing.

8th week.

Revision and examination. Practical and written.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

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8th week.

Revision and examination. Practical and written.

E156

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TRANSLATION

ME/22
5802.

FROM: Ministry of War

REF: 1678/R/4 Add.

TO: M.M.I.A.

DATE: 15.3.46

SUBJECT: Training of armourers.

See 701 44

In reply to your ME/22 of the 5th.inst.

This S.M. agrees on the necessity of the CARs being able to dispose of military armourers trained in inspection, minor repairs, and modifications, on British weapons.

Since at present the armourer situation at the Infantry Divisions presents a deficit because of discharges effected and to be effected, this S.M. has reached the decision to ~~xx~~ carry out appropriate courses at the Artillery Workers and Mechanics School, Civitavecchia, which courses will commence on the 22nd.inst. and will be attended by three men from each CAR.

Duration : six weeks.

Sgd. LIUZZI

Gen.

O. Danin Sgt.

Phone
~~Tel~~ Major Tennis
AB

G155

TO/ds

MINISTERO DELLA GUERRA
STATO MAGGIORE REGIO ESERCITO
UFFICIO OPERAZIONI E ADDESTRAMENTO
SEZIONE ADDESTRAMENTO

N° 1678/R/4 di prot. Add.
OGGETTO: Addestramento di armaiuoli.

Roma, 15 marzo 1946

Rome 6

ALLA LAND FORCES SUB COMMISSION A.C.(M.M.I.A.)
(risp. ME/22 del 5 corrente)

R O M A

Questo Stato Maggiore concorda sulla necessità di poter disporre, presso i C.A.R., di militari armaiuoli addestrati nelle ispezioni, modificazioni e riparazioni di minor conto di armi britanniche.

E poichè l'attuale situazione degli armaiuoli presso le Divisioni di fanteria presenta deficienze a causa dei congedamenti effettuati e da effettuarsi, questo S.M. è venuto nella determinazione di svolgere presso la Scuola meccanici e operai di artiglieria di Civitavecchia apposito corso che avrà inizio il 22 corrente, con la partecipazione di tre militari per ogni C.A.R..

Durata: sei settimane.

IL GENERALE ADDETTO
- G. Liuzzi -

TRANSLATED
Time 0900
Date 18/3.
6154
Time 1700

Translator Please
Sgt II

Declassified E.O. 12065 Section 3-402/NND NO. 785020

N° 1678/R/4 di prot. Add.
OGGETTO: Addestramento di armaiuoli.

Roma, 15 marzo 1946

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IL GENERALE ADDETTO
- G. Liuzzi -

TRANSLATION

IN { Time 0900 / Date 18/3. / 6154

OUT { Time 1700 / Date 18/3

Translator Please
Priority II
WSR dll
Capt.

Declassified E.O. 12065 Section 3-402/NNBC NO. 785020

(21)

Subject :- Training.

Land Forces Sub Comm, A.C.
(M.M.I.A.) ROME
MB/22
20 March.46

BMB's

1, 3, 4, 6, 10 BLU's.

It is likely to be July before any personnel from Italian Technical Training Schools are available for posting to units. Such personnel will all be from the 1924 class now being called up and it remains to be seen how successful they prove. Attempts are being made to allot men to the Technical Training Schools who have prior experience at the trade in which they are to be trained.

It will be essential in the meantime for workshops to continue recruitment and instruction of personnel to replace those being demobilised.

Will you please therefore ensure that C.C's workshops including those in the Infantry Divisions continue their efforts in this direction.

Please advise me of any trades for which you have potential tradesmen but have not the facilities to train them, when we will endeavour to have them trained at CELSANO by the Training Increment there.

6153

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

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6153

W. J. Lt. Col.
A.D.M.E.
M.E.I.A.

AB/fr

R
20 MARCH

Declassified E.O. 12065 Section 3-402/NNDQ NO. 785020

Subject :- Training.

Land Forces Sub Comm, A.C.
(M.M.I.A.) ROME
ME/22
20 March, 46

EME's

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6152

W. J. Reid Capt

Lt. Col.
A.D.M.E.
M.E.I.A.

AB/fr

Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

PROGRESS REPORT No. 15. SECRET

Progress Report by G.S.O. II Training, 12 British Liaison Unit for the Italian Central Military Schools.

Less Appx. 'B': Copy recon be sent in C/TRG/7.

Ref : G/A.3/1024

5 March 1946.

WE/22 (20)

Herewith Progress Report for the month of February 1946.

1. GENERAL.

Most of the Schools are now in the final location, but the delay in approving of establishments and clarification of functions of the Schools has hindered the re-organisation. Financial considerations have delayed or caused to be abandoned much of the constructional work required if the Centre is to be ready to receive the intakes from the C.A.Rs.

It cannot be said that there has been any great improvement in discipline, standards of instruction or general efficiency of the Centre. On the other hand there is a welcome increase in the amount of initiative taken by the Italian Headquarters and School Commanders.

2. INFANTRY TRAINING.

The disbandment of the two Infantry Regiments (236 and 336) of the old 'Piceno' division is now complete with the exception of small rear parties. The Infantry School has taken over the accommodation of the old 336 Regiment. The planning for the Infantry School can now go ahead. The programmes for the course in July are being prepared and instructors selected.

The Infantry School ran a second course for Instructors for C.A.R. (for results see Appendix 'A'). The standard of instruction showed signs that the Instructors are getting stale. This is due to insufficient break between the courses.

A further course for C.A.R. Instructors and a course for Officers from Territorial Battalions starts in the first week of march (See Appendix 'B'). At the risk of repitition, the outstanding requirements of the Infantry School are :-

(a) The construction of permanent ranges. (Plans have been submitted separately).

(b) The construction of drill squares and repair of roads in the Camp.

(c) Translation of Training Pamphlets on M.M.G. and 4.2-in Mortar.

3. PHYSICAL TRAINING SCHOOL.

The current course finishes on the 9th March '46. 39 of the students remain, about 25 of whom should become useful physical training instructors. The P.T. School has made excellent progress in the last month. A certain amount of fresh training material has arrived (none from British sources) and considerable progress has been made in improving the outdoor facilities of the School.

4. ARTILLERY SCHOOL.

Training of Instructors for the intake of Artillery Recruits intake continues. This has been satisfactory in all branches except for the 17 pr C151 the fact that only 1 gun was available for training.

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The principle handicaps to training are :-

(a) The difficulty in arranging planes for target towing.

(b) Difficulties in repairing the moving target apparatus for A/T Shooting, for which a welding set is essential.

(c) Some form of L.A.D. is required if guns are to be kept efficient also for the production of local training aids.

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4. ARTILLERY SCHOOL (Cont'd)

Details of future courses are shown in Appendix, but in addition all Instructors already trained in Artillery subjects will undergo a three weeks course dealing with the following subjects.

(i) General elementary training of the recruit.

(ii) Physical Training.

(iii) Unit administration.

(iv) Maintenance of Equipment.

5. SCHOOL OF MOTORISATION.

The course commenced on 15th January '46 finished on 28th February. Details of the results, however, are not yet to hand. The course appeared to run fairly efficiently and the Commandant of the School, Colonel NEGRI, appears a most energetic Officer.

A new establishment was submitted to the Ministry of War and it is hoped the School will be organised as follows :-

(a) 1 Company to train 60 Junior Officers on a 6 month Course.

(b) 2 Battalions each to train 800 recruit drivers on a three month D & M Course.

(c) 1 Company for 50 Cadet Officers and 50 NCOs.

(d) Two M.T. Companies each of 100 3-tonners for Battalions as (b) above. A mixed platoon for the needs of (a) and (c) above and the maintenance of the School. A workshop platoon of three sections.

For training purposes the chief need is for sectioned parts, models and diagrams as the original material held by the D & M School is quite insufficient. The state of accommodation is giving cause for anxiety as while there is now sufficient space, repairs have not yet started.

Two future courses are projected.

(i) An M.T. Instructors course which will be a refresher course for the 30 Officers and 1,150 NCOs of the old D & M School, starting 5th March.

(ii) A P.O.L. Course initially for all arms in Unit Petrol Storage. Later courses being for Automobilistics Officers in Bulk Storage.

These courses will be held at a Petrol Depot in RCME.

6. SIGNALS SCHOOL.

Of the 181 students under training at the beginning of the month, 171 remain with a fortnight to go. The 10 students who have departed, coming from the potential instructors course. The progress of the remainder is satisfactory.

Training has been impeded by the temporary shortage of 19 sets (owing to the Armoured course) and by shortage of wireless vehicles, which have made mobile schemes difficult.

As with other Schools at CECCHIGNOLA, the repair of the barracks is going ahead very slowly.

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6150

7. M & M School.

It appears probable that this School will be split into two parts. The Vehicle part moving to the School of Motorisation, the Armaments part remaining at SACILE barracks.

At the moment the following are under training.

Driver Mechanics	-	-	172
Vehicle Mechanics	-	-	42
General Fitters	-	-	19
House Electricians	-	-	9
Turners	-	-	6
TOTAL	-	-	248

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7. E & M School (Continued).

While the layout of the School and the facilities are quite good, the shortages of instructors as mentioned in previous Progress Reports remains and little effort to fill vacancies is apparent. Moreover, while the numbers under training for Vehicle Maintenance and repairs is satisfactory, the other responsibilities appear to be neglected.

8. ENGINEER SCHOOL.

Has been mainly occupied in the transfer of its stores and equipment to AURELIA BARRACKS, CIVITAVECCHIA, a task which is now complete.

Supervision of this School has been impossible owing to the lack of a SO. RE during the last month.

A course for Junior NCOs is in progress.

9. ARMOURED CAR COURSE.

After a shaky start this course appears to be going very well. Sufficient equipment has arrived, and owing to the enthusiasm of the R.A.C. Traini Team, the remaining difficulties are being overcome.

One Tactical excercise has already been run and while not entirely satisfactory, the standard of driving and Wireless Procedure was above expectations.

The condition of Armoured Cars handed over to the Italians leaves much to be desired.

10 POLICE SCHOOL.

Was visited during the last month by Staff Officer, M.M.I.A., who has promised to review the syllabus. This is most important as much of the previous syllabus tended to be superflucus now that the war is over.

The Police School remains the worst accommodated School and is likely to remain so, as little interest is shown in it by H.Q. Central Military Schools and none by the Carabinieri H.Q. A proper syllabus and systemization is essential for th School.

At the moment 13 Officers and 114 ORs are under training on a 4 week course for Military Police.

4. Medical Orderlies Course.

A course for 73 medical orderlies for C.A.Rs was run during the month of February, the object being to produce 1 Medical NCO and 4 Orderlies. Results are as given in Appendix 'A'.

12. SCHOOL OF ADMINISTRATION AND WELFARE.

The problem of the implementation of the suggested War Establishment was finally solved at a conference at MMIA at the beginning of this month. It was decided that a W.E. of 43 all ranks instructors would be required for the courses to be run at the School. The total personnel to be 130 all ranks (18 Officers, 25 NCOs, 87 ORs) which would allow the Unit to work self contained with the necessary implementation of Medical Officer and Medical Orderly for the proposed hospital.

The syllabus of the course to be run at the School is as follows :-

Services Course

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The Police School remains the worst accommodated School and is likely to remain so, as little interest is shown in it by H.Q. Central Military Schools and none by the Carabinieri H.Q. A proper syllabus and systemization is essential for the School.

At the moment 13 Officers and 114 ORs are under training on a 4 week course for Military Police.

4. Medical Orderlies Course.

A course for 73 medical orderlies for C.A.Rs was run during the month of February, the object being to produce 1 Medical NCO and 4 Orderlies. Results are as given in Appendix 'A'.

12. SCHOOL OF ADMINISTRATION AND WELFARE.

The problem of the implementation of the suggested War Establishment was finally solved at a conference at MMIA at the beginning of this month. It was decided that a W.E. of 43 all ranks instructors would be required for the courses to be run at the School. The total personnel to be 130 all ranks (18 Officers, 25 NCOs, 87 ORs) which would allow the Unit to work self contained with the necessary implementation of Medical Officer and Medical Orderly for the proposed hospital.

The syllabus of the course to be run at the School is as follows :-

6149

Services Course.

(a) Unit administration and Accounts.

(b) Care and Maintenance of Stores, arms, ammunition etc.

(c) Supplies in general composition of rations improvements.

(d) Organisation of functions of Messes, cookhouses etc.

(e) Accommodation General Camp sites, permanent sites.

(f) Hygiene, Prophylaxis of infectious and epidemic diseases, Unit Infirmaries, Medical Orderlies, Prophylactic Stations.

(g) Welfare of personnel, discipline, relations between army ranks and duties toward same.

(h) Maintenance of Vehicles.

...../4.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

12 SCHOOL OF ADMINISTRATION AND WELFARE (Cont'd).

The above courses, for Junior Officers of all arms, total 30 (⅓ Captains, 2/3 Subalterns), 6 periods per day. Duration of course 4 weeks.

Hygiene Course.

(a) Hygiene Installations, permanent and occasional.
(b) Prophilaxis of infectious and epidemic diseases.
(c) Precautions to be followed for the good health of soldiers.
(d) Food composition of rations, effects in varied climatic conditions.
(e) Welfare discipline, relations between Medical and Regimental Officers, Medical adviser to Commanding Officers.
(f) Organisation of Infirmaries, Medical inspection rooms, First Aid.
(g) P.T., Sports and Games.
(h) Duties of a Medical Officer.
(i) Training of Medical Assistants.

The above courses, for Junior Medical Officers, total 30 (⅓ Captains, 2/3 Subalterns), 6 periods per day. Duration of course 4 weeks.

Care and Welfare of Soldiers.

(a) Unit administration, Scope of Allowances and Grants.
(b) Clothing, equipment, accommodation and maintenance.
(c) Supplies, Rations, composition cooking.
(d) Hygiene.
(e) Control of personnel, discipline, rewards, leave etc.
(f) Welfare and assistance organisations.
(g) Canteens administration.
(h) Organisation of Theatres, Cinemas, Clubs, Libraries and Schools.
(i) Price Controls, Families assistance organizations.
(j) P.T., Games and Sports.
(k) Religious assistance (Chaplains).

The above courses for Junior Officers of all arms. ⅓ Captains, 2/3 Subalterns, 6 periods per day. Duration of course 4 weeks.

Education and Democracy.

The programme is still not complete and is being revised.

For Junior Officers of All Arms ¼, NCOs ¾, total 100, 6 periods per day. Duration of course 4 weeks.

Vocational Training Courses will also be run at the School for specialists as follows :-

(i) Course for NCOs - Accountancy.
(ii) Course for typists.
(iii) Course for Storekeeper.

Declassified E.O. 12065 Section 3-402/NNDG No. 785020

(h) Duties of a Medical Officer.

(i) Training of Medical Assistants.

The above courses, for Junior Medical Officers, total 30 ($\frac{1}{3}$ Captains, 2/3 Subalterns), 6 periods per day. Duration of course 4 weeks.

Care and Welfare of Soldiers.

(a) Unit administration, Scope of Allowances and Grants.

(b) Clothing, equipment, accommodation and maintenance.

(c) Supplies, Rations, composition cooking.

(d) Hygiene.

(e) Control of personnel, discipline, rewards, leave etc.

(f) Welfare and assistance organisations.

(g) Canteens administration.

(h) Organisation of Theatres, Cinemas, Clubs, Libraries and Schools.

(i) Price Controls, Families assistance organisations.

(j) P.T., Games and Sports.

(k) Religious assistance (Chaplains).

The above courses for Junior Officers of all arms. $\frac{1}{3}$ Captains, 2/3 Subalterns, 6 periods per day. Duration of course 4 weeks.

Education and Democracy.

The programme is still not complete and is being revised.

For Junior Officers of All Arms $\frac{1}{4}$, NCOs $\frac{3}{4}$, total 100, 6 periods per day. Duration of course 4 weeks.

Vocational Training Courses will also be run at the School for specialists as follows :-

(i) Course for NCOs - Accountancy.

(ii) Course for typists.

(iii) Course for Storekeeper.

(iv) Course for Stenographers.

(v) Course for relief Draughtsmen.

6148

The programme for the above courses is being revised. Each course will consist of 30 NCOs.

Other courses for the Senior Regimental Officers will also be introduced as and when the situation permits.

Some difficulty is being experienced in obtaining certain accommodation and R.E. supplies but the situation is expected to improve shortly, finance being the chief factor preventing certain work being effected.

The first course and transfer from SIVE to RIETI will take place at the beginning of March.

...../5.

Declassified E.O. 13065 Section 3-402/NNDC No. 785020

13. INSTRUCTORS SCHOOL - SIVA.

The School is running a short course for Infantry Generals from Territorial Commands, in the nature of an orientation course and also a course for Junior Medical Officers. After this the School disbands, a part forming the Co-operation School at CIVITAVECCHIA.

A certain amount of progress has already been made towards this. The Commandant, General MATTEOLI has been appointed and is collecting his staff. Expenditure on barracks has been authorised.

A syllabus is being prepared but there is a big need of materials covering formation training.

Results of the 2nd Course for Officers of C.A.Rs is given in Appendix 'A'.

14. ADMINISTRATION OF CENTRAL MILITARY SCHOOLS.

(a) Accommodation.

As already pointed out, difficulty is being experienced in starting new building projects owing to lack of money. Those already started are in most cases nearly completed.

(b) R.E.M.E. Matters.

Lack of spare parts is holding up the repair of vehicles and to a lesser extent shortage of skilled tradesmen, however there is a slight improvement in the number of vehicles repaired in the last month.

Four of the LLR vehicles have been evacuated to A.O.R.E. BOLOGNA but another 16 are still awaiting evacuation.

Repairs of small arms are also held up by lack of spares and also by the lack of interest by Italian Commanders in the state of weapons.

(c) Discipline.

A rather marked drop in standard during the last month caused probably by the unsettlement occasioned by the move of Schools and disbandment of Units. It is thought this is only temporary.

(d) Hygiene.

The Italians are making a big drive on this at the moment and the Senior Medical Officer conducts effective inspections of all Units. A water shortage has fortunately been averted by the recent rains.

(e) Welfare.

Games and sports are now being well organised. The conditions of living of permanent staffs in places like CESANO is far from satisfactory. Absence of furniture, books, and other recreational facilities, which means that Officers and NCOs go to ROME as far as their money will allow them.

(f) Morale.

The dissatisfaction of Officers and NCOs with conditions in the army continues and many Officers are leaving the centre owing to financial difficulties. The comparative table given in Appendix 'C' shows why a married Officer will prefer to be stationed in ROME where he can

Declassified E.O. 12065 Section 3-402/NNRG NO. 78020

14. ADMINISTRATION OF CENTRAL MILITARY SCHOOLS.

(a) Accommodation.

As already pointed out, difficulty is being experienced in starting new building projects owing to lack of money. Those already started are in most cases nearly completed.

(b) R.E.M.E. Matters.

Lack of spare parts is holding up the repair of vehicles and to a lesser extent shortage of skilled tradesmen, however there is a slight improvement in the number of vehicles repaired in the last month.

Four of the DLR vehicles have been evacuated to A.O.R.E. BOLOGNA but another 16 are still awaiting evacuation.

Repairs of small arms are also held up by lack of spares and also by the lack of interest by Italian Commanders in the state of weapons.

(c) Discipline.

A rather marked drop in standard during the last month caused probably by the unsettlement occasioned by the move of Schools and disbandment of Units. It is thought this is only temporary.

(d) Hygiene.

The Italians are making a big drive on this at the moment and the Senior Medical Officer conducts effective inspections of all Units. A water shortage has fortunately been averted by the recent rains.

(e) Welfare.

Games and sports are now being well organised. The conditions of living of permanent staffs in places like CESANO is far from satisfactory. Absence of furniture, books, and other recreational facilities, which means that Officers and NCOs go to ROME as far as their money will allow them.

(f) Morale.

The dissatisfaction of Officers and NCOs with conditions in the army continues and many Officers are leaving the centre owing to financial difficulties. The comparative table given in Appendix 'C' shows why a married Officer will prefer to be stationed in ROME where he can live with his family, and gets more 'cost of living' allowance, rather than at this Centre where he gets less allowance and can find no accommodation. The Artillery School has already lost four of its best Officers.

The remedy might be the introduction of Instructors Pay, or that married families can draw army rations on repayment.

At the moment, however, to be posted to the Central Military Schools contains many disadvantages and no apparent benefits.

61/7

...../6.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

15 MISCELLANEOUS.

+Results of Courses for T.T.Cs as at Appendix 'A' attached.

+Course in progress and Future Courses as on 28 February 1946. - - as at Appendix 'B' attached.

Comparative Pay Table " " " 'C' "

++Staff List of 12 B.L.U. " " " 'D' "

+++Staff List of Italian Officers Lieut-Col and above " " " 'E' "

++Return of British MT held by 12 B.L.U. " " " 'F' "

++Deficiencies of all Ranks of 12 B.L.U. as against W.E. including details of all ranks on leave and when due to return. " " " 'G' "

+14 additional copies to M.M.I.A. for T.T.C's.

++In triplicate to M.M.I.A.

+++To M.M.I.A. only.

Major GSO II,
Trg & Inf Trg,
12 British Liaison Unit for the
Italian Central Military Schools.

WLP/raw

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Internal.

GSO II (Schools) (1)
S.O. R.Sigs (1)
File

Declassified E.O. 12065 Section 3-402/NNBC NO. 785020

++Deficiencies of all Ranks of 12 B.L.U. as against W.E. including details of all ranks on leave and when due to return. " " " 'G' "

+1 additional copies to M.M.I.A. for T.T.C's.

++In triplicate to M.M.I.A.

+++To M.M.I.A. only.

Major GSO II,
Trg & Inf Trg,
12 British Liaison Unit for the
Italian Central Military Schools.

WLP/rew

6146

Internal.

GSO II (Schools) (1)
S.C. R.Sigs (1)
File
Float
Spares (2)

Declassified E.O. 12065 Section 3-402/NNDG. NO. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

RESULTS OF COURSES FOR T.T.C's.

COURSE	Excellent.	V.Good	Good	Sufficien
2nd Course for Bn Comds at CAR's held at SIVA	6	7	20	-
2nd Course for Coy Comds at CAR's	-	-	10	8
2nd Course for Pl. Comds at CAR's held at Infantry School	9	35	50	9
2nd Course for NCO Instructors for CAR's held at 336 Regt			NO RESULTS	
2nd Course for Junior NCOs (Graduati) Instrs for CAR's heldat 336 Regt	1	17	103	64
Hygiene Course	5	16	21	10

ARTILLERY SCHOOL RESULTS

COURSE	Passed
25 pr Officer Instructors	11
17 & 6 pr Officer Instructors	18
40 mm Officer Instructors	8
25 pr NCO Instructors	69
17 & 6 pr NCO Instructors	15
40 mm NCO Instructors	14

To: 145

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

APPENDIX 'A'

To: 12 B.L.U. Progress Report
No. 15 dated 5 March 1946

RESULTS OF COURSES FOR T.T.C's.

	Excellent.	V.Good	Good	Sufficient	Failed	No Results	Total
d at SIVA	6	7	20	-	-	-	33
	-	-	10	8	1	1	20
eld at Infantry School	9	35	50	9	-	1	104
CAR's held at 336 Regt			NO RESULTS				
) Instrs for CAR's heldat 336 Regt	1	17	103	64	109	-	294
	5	16	21	10	11	10	73

	Passed	Failed	No Results	Total
	44	-	4	48
	18	-	-	18
	8	-	1	9
	69	2	-	71
	15	8	-	23
	14	-	-	14

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Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

COURSE IN PROGRESS AND FUTURE COURSE AS ON 28 FEBRUARY '46.

Course in Progress

School	Course	Start	End	Offrs	NCOs	OR's	Total
C.V.A.							
Infantry School	Armoured Car	7/2	?	25	46	-	71
Engineers	Student NCO's	4/2	4/4	-	70	-	70
Artillery	Physical Training	25/2	18/3	24	55	-	79
	Recruit Training	25/2	18/3	22	55	-	77
	Administration	25/2	18/3	-	91	-	91
	Workshops	25/2	18/3	-	9	-	9
Signals	CC.RR W/T Armd Car	17/2	7/3	11	26	61	98
Motorisation School.	CC.RR Instructors	15/1	28/2	16	15	-	31
	Drivers	15/1	28/2	-	9	370	379
S.M.O.A.	CC.RR Driver Mechs	23/1	30/3	-	-	172	172
	" Fitters etc	15/1	30/3	12	9	55	76
R.E. School	Instructors	14/1	9/3	18	21	-	39
Military Police	CC.RR Mil Police	25/2	24/3	13	114	-	127

Future Courses.

Course	Start
Generals Territorial Divs	4/3
Medical Officers	4/3
3rd C.A.R.	4/3
Territorial Offrs	4/3
NCO Instructors	11/3
Infantry W/T Instructors	1/3
Instructors	1/4

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

APPENDIX 'D'

To 12 B.L.U. Progress Report
No. 15 dated 5 March 1946

COURSE IN PROGRESS AND FUTURE COURSE AS ON 28 FEBRUARY '46.

ess						Course	Start	End	Offrs	NCOs	OR's	Total
Start	End	Offrs	NCOs	OR's	Total							
						Generals Territorial Divs	4/3	14/3	11	-	-	11
						Medical Officers	4/3	23/3	30	-	-	30
						3rd C.A.R.	4/3	15/4	100	300	-	400
7/2	?	25	46	-	71	Territorial Offrs	4/3	15/4	80	220	-	300
					70							
4/2	4/4	-	70	-	79	NCO Instructors	11/3	20/4	-	60	-	60
25/2	18/3	24	55	-	77							
25/2	18/3	22	55	-	91							
25/2	18/3	-	91	-	9							
25/2	18/3	-	9	-	98	Infantry W/T Instructors	4/3	?	10	20	-	30
17/2	7/3	11	26	61	31							
15/1	28/2	16	15	-	379							
15/1	28/2	-	9	370	172							
23/1	30/3	-	-	172	76							
15/1	30/3	12	9	55	39	Instructors	1/4	30/5	40	40	-	80
14/1	9/3	18	21	-	127							
25/2	24/3	13	114	-								

Future Courses.

Unclassified E.O. 12065 Section 3-402/NNDC NO. 785020

COMPARATIVE PAY TABLE.

To: 12 B.L.U.
No.15 dated

RANK	Married or Single	Basic Pay Per Month	Extra Pay (Ind Mil)	"Cost of Living Allowance" (Carovita)		Totals per Month	
				ROME	BRACCIANO	ROME	BRACCIANO
MAJOR	S	5575	1402	2145	1430	9122	8407
- do -	M	5575	1885	3646	2431	11106	9891
CAPTAIN	S	4966	1208	2145	1430	8319	7604
- do -	M	4966	1557	3646	2431	10169	8954
W.O.	S	2661	571	2145	1430	5384	4669
- do -	M	2661	742	3646	2431	7049	5834
S/SGT.	S	2085	300	2145	1430	4530	3815
- do -	M	2085	465	3646	2431	6196	4981

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

CONFIDENTIAL

COMPARATIVE PAY TABLE.

APPENDIX 'C'
To: 12 E.L.U. Progress Report
No.15 dated 5 March 1946

y	Extra Pay (Ind Mil)	"Cost of Living Allowance" (Carovita)		Totals per Month		Difference
		ROME	BRACCIANO	ROME	BRACCIANO	ROME / BRACCIANO
	1402 1885	2145 3646	1430 2431	9122 11106	8407 9891	715 1215
	1208 1557	2145 3646	1430 2431	8519 10169	7604 8954	715 1215
	571 742	2145 3646	1430 2431	5384 7049	4669 5834	715 1215
	300 465	2145 3646	1430 2431	4530 6196	3815 4981	715 1215

APPENDIX 'D'

To: 12 B.L.U. Progress Report
No. 15 dated 5 March 1946

STAFF LIST OF 12 B.L.U.
as at
09.00 hours 1 March 1946

Commander		Col. L.H. Mackay, O.B.E. (59836)
GENERAL STAFF BRANCH		
GSO III		A/Capt A.W. Gibbins (233416) RA.
BRANCH OF THE ADJUTANT GENERAL AND QUARTERMASTER GENERAL		
DAA & QMG		T/Maj H.J. Bamford (226359) RAC
Staff Captain		A/Capt W.R. Trevelyan (256126) RB
SERVICES		
DADST		A/Maj J.C. Halket (95547) RASC
DADOS		T/Maj T.H. Shorthose (127395) RACC.
DADME		A/Maj A.T. Twine (230819) REME.
TRAINING BRANCH.		
STAFF		
GSO II Trg & Inf		T/Maj W.L. Price (74688) N.Staffs.
GSO II Trg & Inf		T/Maj M.F. Chance (67432) R.Ir.Fus.
RA WING.		
Instructor in Gunnery (Major) ...		T/Maj J.E. How (93846) RA.
RE WING.		
Instructor RE (Major) ...		
R. SIGNALS.		
Instructor R. Sigs (Major) ...		A/Maj D.R. Skinner (194077) R.Sigs.
ATTACHED.		
... ...		T/Capt J.M. Strawson (72479) RAC.

6142

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

SERVICES

DADST
DADOS ... ... A/Maj J.C. Halket (95543) RASC
DADME ... ... T/Maj T.H. Shorthose (127395) RAOC.
... ... A/Maj A.T. Twine (250819) RAME.

TRAINING BRANCH.

STAFF

GSO II Tr[illegible] & Inf ... ... T/Maj W.L. Price (74668) N.Staffs.
GSO II Tr[illegible] & Inf ... ... T/Maj H.F. Chance (67432) R.Ir.Fus.

RA WING.

Instructor in Gunnery (Major) ... T/Maj J.E. How (93846) RA.

RE WING.

Instructor RE (Major) ...

R. SIGNALS.

Instructor R. Sigs (Major) ... A/Maj D.R. Skinner (194077) R.Sigs.

ATTACHED.

... ... T/Capt J.M. Strawson (72479) RAC.

6142

Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

APPEN

To: 12 B.L.U. Pro
No. 15 dated

614

Serial No.	Vehicle Type	Regd No.	Efficient (E)	Local Repair (LR)	Beyond Local Repair (BLR)	Re
1	DODGE 3-ton	L.5689402	E			
2	CHEVROLET 3-ton	L.5686553	E			
3	FORD GS 15-cwt	Z.5313398	E			
4	DODGE GS 15-cwt	Z.4982463	E			
5	DODGE GS 15-cwt	Z.5230009	E			
6	AUSTIN P.U.	M.1137044	E			
7	HILLMAN P.U.	M.5100869		LR		
8	JEEP	M.5626871	E			
9	TRIUMPH 500	C/542624		LR		
10	BSO 500	C/5117266	E			
11	BSA 500	C/1461106	E			
12	BSA 500	C/5547639	E			

Certified that the above vehicles are held on charge, that their condition is as stated, that ABs 412 and 406 have been inspected and found correct.

Date 1 March 1946.

Signed.....
Comd 12 British Liaison Unit for th
Italian Central Military School

Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

APPENDIX 'F'

To: 12 B.L.U. Progress Report
No. 15 dated 5 March 1946.

614

Regd No.	Efficient (E)	Local Repair (LR)	Beyond Local Repair (BLR)	Remarks.
L.5689402	E			
L.5686553	E			
Z.5313398	E			
Z.4982463	E			
Z.5230009	E			
M.1137044	E	LR		
M.5100869	E			
[illegible]5626871	E	LR		
C/5426264	E			
C/5117266	E			
C/1461106	E			
C/5547639	E			

the above vehicles are held on charge, that their condition is as stated, and
nd 406 have been inspected and found correct.

Signed.....
Colonel.

946.

Comd 12 British Liaison Unit for the
Italian General Military Schools.

APPENDIX 'C'

To: 12 B.L.U. Progress Report
No. 15 dated 5 March 1946

(A)

Deficiencies in all Ranks as against W.E. CA/1018/1 dated 1 June 1945.

(i) Officers

	Major	Total
HQ Wing.		
Instructor RE (Major) ++	1	1

++ MS Authority received for posting of Major RE but this Officer (A/Capt W.R. CHAPMAN (260260) RE) has not yet joined for duty.

(ii) Other Ranks.

	WO II	Sgts	Cpls	Ptes	Total.
Storeman Tech RAOC	-	-	-	1	1
Arm Art (Veh) REME	1	-	-	-	1
Storeman Tech REME	-	1	-	-	1
Elec Veh and Plant REME	-	1	-	-	1
Veh Mech REME	-	1	-	-	1
CMSI RE	1	-	-	-	1
Storeman RE	-	-	-	1	1
Clerk GD RE	-	-	-	1	1
Inst Op W/T R.Sigs	-	1	-	-	1
Instr CMP	-	-	1	-	1
Clerks GD Any Arm	-	1	-	3	5
Cook ACC	-	-	1	-	1
TOTALS	2	4	2	6	14

(B) Details of all ranks on leave and when due for return.

(i) Officers

LILAP 1 Officer due to return 7 April 1946.

(ii) Other Ranks.

LILAP 1 Cpl due to return 18 March 1946.

(C) Details of all ranks due for leave in immediate future.

(i) Due under LILAP, LILOP etc - ORs 1

(ii) Due under GRO 1352/45 - Offrs 4
ORs 5

6140

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Storeman Tech RACC	-	-	-	1	1
Armr Art (Veh) REME	1	-	-	-	1
Storeman Tech REME	-	1	-	-	1
Elec Veh and Plant REME	-	1	-	-	1
Veh Mech REME	-	1	-	-	1
QMSI RE	1	-	-	-	1
Storeman RE	-	-	-	1	1
Clerk GD RE	-	-	-	1	1
Inst Op W/T R.Sigs	-	1	-	-	1
Instr CMP	-	-	1	-	1
Clerks GD Any Arm	-	1	-	3	3
Cook ACC	-	-	1	-	1
TOTALS	2	4	2	6	14

(B) Details of all ranks on leave and when due for return.

(i) Officers

LIAP 1 Officer due to return 7 April 1946.

(ii) Other Ranks.

LIAP 1 Cpl due to return 18 March 1946.

(C) Details of all ranks due for leave in immediate future.

(i) Due under LIAP, LILOP etc - ORs 1

(ii) Due under GRO 1352/45 - Offrs 4
ORs 5

6140

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

(19)

Subject :- Training of Armourers.

Land Forces Sub Comm., A.C.
(M.M.I.A.) ROME
MX/22
5 March.40.

Ministry of War.

dec 39 (35) 44

It would seem necessary to have at C.A.R's armourers trained in inspection, adjustment and minor repairs of British weapons now that British weapons are being issued to C.A.R's.

Such armourers already exist in the Infantry Divisions.

It is suggested that you withdraw sufficient armourers trained in British weapons from the Infantry Divisions and post them to the C.A.R's as armourers.

Before going to the C.A.R's they should have a refresher course at CIVITAVECCHIA by arrangement with HQ Military Schools, commencing about 18 March and lasting a fortnight.

33 have arrived
12 BKD, REME finding 4 the CARs which have produced students

A
5-3-40

MX/ix

Copy to : 'G(Trg)'

D.A.D.M.E., 12, BLU.

Lt. Col.
A.D.M.E.
M.M.I.A.

6139

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

(19)

Subject :- Training of Armourers.

Land Forces Sub Comm,A.C.
(M.M.I.A.) ROME
ME/22
March.46.

Ministry of War.

It would seem necessary to have at CAR's armourers trained in inspection, adjustment and minor repairs of British weapons now that British weapons are being issued to C.A.R.'s.

Such armourers already exist in the Infantry Divisions.

It is suggested that you withdraw sufficient armourers trained in British weapons from the Infantry Divisions and post them to the C.A.R.'s as armourers.

Before going to the C.A.R's they should have a refresher course at CIVITAVECCHIA by arrangement with HQ Military Schools, commencing about 18 March and lasting a fortnight.

Lt. Col.
A.D.M.E.
M.M.I.A.

AB/fr

Copy to : 'G(Trg)'
D.A.D.M.E, 12, BLU.

6138

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Subject :- Instruction of Officers for M.T.Workshops.

Land Forces Sub Comm.A.C.
(M.M.I.A.) ROME
MB/22.
4 March.46.

Ministry of War.

With reference to my letter MB/22 of 29 January 1946 and your letter 4357/2 GA - 04637 of 21 February, I would welcome your plans for the instruction of the above officers.

Paragraph 4 of your letter mentions both officers of the Corpo Automobilistico and of other arms attending the appropiate course.

It is understood that officers assigned to Transport Units are being trained at Cecchignola whilst officers for Repair Units are to be trained at the Centro Studi.

Can you now say when training of officers for Repair Units will commence and the numbers of such officers attending this course.

Are syllabi for this course available please?

MB

Lt. Col.
A.D.M.S.
M.M.I.A.

MB/Ir

Copy to: DADME, 12, BLA.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Translation

ME/22/80.

From M.of W. MIT. Directorate.

To M.M.I.A.

Ref. 2357/20.A.

04637

Date 21/2/46.

17

Subject Instruction of Personnel for the M.T.Corp.

with reference to letter ME/22 dated 29/I/46 and to the subsequent one dated I2/2/46 as well as to the conversations which took place afterwards we point out:

I°) - As per verbal suggestions,approved by Col.FLUNT on the basis of the meeting held at the M.M.I.A.on the 2/2/46 it is laid down that the mechcanics and art.workers school remains definately in its HQ at Civitavecchia.

The M.T. training part which was carried out at the school, will be passed on to the M.T. school at Cecchignola.

2°) - Also in accordance withnverbal agreement we agree on the idea of sub-dividing the training of personnel specialised in repairs in two:categories:

a)In the first category will be included the less complex trades such as black smiths,oxygen welders,joiners etc. for whom in any case a higher standard of educational preparation is not required;

b)In the second category will be included such trades as fitters,motor mechanics,injection pump inspectors etc. for whom besides a higher educational preparation a longer period of training is required and of a higher educational standard

We have received informtion from the S.M.R.E. that the selection of the elements to be sent to the M.T.school will be carried out by appropiate personnel.

67.6

12/2/46

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

3°) - The possibility of carrying out, as soon as possible, an N.C.O. tradesman course for those who have already the required standard of education is under consideration. These personnel are not at present employed in M.T. ~~of~~ repair units.

4°) - Evidently, as has been carried out in the past, officers training will never be ~~xxxxxxxxxx~~associated with N.C.O's or O.R's training.
Officers belouging to the M.T. corp, as in the past, who are to be sent to repair units, will attend the appropiate course.
Officer belonging to the various arms who, on the other hand, are to be assigned to the repair service, will, before anything else, attend an course of a "formative" nature and subsequently be trained as said for the officers to be assigned to the repair services.

5°) - Except for some amendments which will be submitted to you, we agree with the sub-dividing of the training organisation, concerning the repair service, of the school which will therefore have to arrange to carry out the following courses:
I - for section mechanics;
2 - for tradesmen referred to at letter A of previous para.2
3 - for tradesmen referred to at letter B of the aforesaid N°2
4 - for regular army N.C.Os (workmen, chief mechanics, workshop foremen).
5 - for officers, as said in previous para. N° 4
As known, the school will have besides the following kinds of training:
I - Driving courses for O.Rs
2 - Courses for instructors juniors N.C.Os and section N.C.Os
3 - "Formative" courses for officers to be assigned to the M.T. corp.
4 - In formative courses for officers belonging to the M.T. corp;
5 - Higher technical courses for officers belonging to the M.T. corp.

6135

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

6°) - Greatly is appreciated the desired collaboration offered by you also in this field in order to solve this important problem.
Due to the present situation it is today difficult due to the lack of good instructors suitable to carry out their task well.
Due to this reason it is made absolutely necessary to unite these personnel in one small party at a single school who,under good direction,will undoubtly carry out,with the greatest benefit,the task of training large numbers of men who on the other hand would not be able to be well instructed if the instructors were dispersed in various units belonging to the army.
This school will moreover ensure a standard of training which will create that new M.T. mentality,specially in cadres,necessary not only to meet the present poor situation,but to bring to that level of concientiousness that forms the moral basis for reaching some good results also of a technical nature,imposed both by the new organizations regulations and the changed program of the M.T. organisations.

7°) - Concerning the art.mechanics school besides what has been said in paraI° of this letter and as laid down during the meeting on the 2/2/46,it will still be known as the "Mechanics and Art? Tradesman School" sub-dividing the training in two sections:
I - For infantry arms(rifles,pistols,automatic arms,mortars and 6 pounder guns etc.);
2 - for art.on 25 pounders,I7 pounders etc.

In consideration that you well know and value the difficulties which oppose the full realisation of the a/m proposals,which are in perfect agreement with the informative ideas expressed in letter ME/22 dated 29/I/46,we ask,ernestly,the authoritive and competent collaboration,offered in the a/M letter,from Col.BLUNT.Because only with this effective work,which is based on the complete agreement of veiws with your mission,will it be possible,to arrive at the realisation of the above problems/

6134

DAK (XXXXXXXXXXXXX)

Translate please
Priority II
ASAP

Roma, 21 FEB. 1946

Ministero della Guerra
DIREZIONE GENERALE
ARTIGLIERIA E MOTORIZZAZIONE
Div. corpo automobilistico
Divisione Sez. 2ª
Prot. N. 2357/CCA Allegati
04637

TRANSLATION

IN

OUT

A/LA LAND FORCES SUB COMMISSION
A.C. (MMIA)
= R O M A =

Date 07/2

Time

Risposta al Foglio del
Div. Sez. N.

OGGETTO Istruzione del personale del corpo automobilistico.-

e, per conoscenza:
ALLO STATO MAGGIORE R.ESERCITO-Ufficio Addestramento = S E D E =

****

Con riferimento alla lettera ME/22 del 29 gennaio u.s. ed alla successiva del 12 febbraio nonchè alle conversazioni posteriormente intercorse si precisa:

1°)- Come da proposte verbali, approvate dal Sig. Col. BLUNT in sede di riunione tenutasi alla M.M.I.A. il 2 febbraio c.a.resta stabilito che la scuola meccanici ed operai di artiglieria rimane definitivamente nella sua sede di Civitavecchia.
La parte di addestramento motoristico che era attribuita a quella scuola, sarà passata a quella della motorizzazione alla Cecchignola.

2°)- Anche secondo le intese verbali si condivide il concetto di suddividere in due categorie l'addestramento del personale specializzato per le riparazioni:
a)- nella prima categoria comprendere l'addestramento meno complesso di quelle specializzazioni come fabbri, saldatori autogeni, falegnami ecc. per le quali non occorre peraltro una maggiore preparazione culturale degli allievi;
b)- nella seconda categoria includere quelle specializzazioni come aggiustatori, motoristi, verificatori pompe iniezioni ecc., per le quali oltre ad una maggiore preparazione culturale degli allievi si richiede un periodo di addestramento più lungo e a carattere culturale più elevato.
Si è avuto notizia dallo S.M.R.E. che presso i C.A.R. sarà fatta la selezione degli elementi da avviarsi alla Scuola della Motorizzazione da parte di apposito personale.

3°)- E' in studio la possibilità di fare eseguire, appena possibile, un corso di specializzazione a sottufficiali i quali hanno già un grado di preparazione sufficiente. Tale personale

Declassified E.O. 12065 Section 3-402/NNRG NO. 785020

Prot. N° 235/1008 Allegati
00837

OU.

Tipo Risposta al Foglio del
Div. Sez. N.

OGGETTO Istruzione del personale del corpo automobilistico.-

e, per conoscenza:
ALLO STATO MAGGIORE R.ESERCITO-Ufficio Addestramento = S E D E =

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La parte di addestramento motoristico che era attribuita a quella scuola, sarà passata a quella della motorizzazione alla Cecchignola.

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Si è avuto notizia dallo S.M.R.E. che presso i C.A.R. sarà fatta la selezione degli elementi da avviarsi alla Scuola della Motorizzazione da parte di apposito personale.

3°)- E' in studio la possibilità di fare eseguire, appena possibile, un corso di specializzazione a sottufficiali i quali hanno già un grado di preparazione sufficiente. Tale personale non è attualmente impiegato nei reparti automobilistici o di riparazioni.

./.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

4°)- Evidentemente, come del resto è stato operato nel passato, non sarà mai associato l'addestramento di ufficiali con quello di sottufficiali o truppa.
Gli ufficiali del corpo automobilistico - come per il passato - che dovranno essere assegnati ai reparti riparazioni, frequenteranno apposito corso.
Gli ufficiali delle varie armi, invece, che dovessero essere assegnati al servizio delle riparazioni, dovranno anzitutto frequentare un corso a carattere "formativo" automobilistico e successivamente essere addestrati come detto per gli ufficiali del corpo automobilistico da assegnarsi al servizio riparazioni.

5°)- Salvo qualche ritocco che potrà essere preventivamente sottoposto a codesto MMIA si è concordi nella suddivisione dell'organizzazione dell'addestramento, per il servizio riparazioni, della scuola la quale pertanto dovrebbe provvedere all'esecuzione dei seguenti corsi:

I- per meccanici di sezione;
II- per specializzati di cui alla lettera a) del precedente n° 2;
III- per specializzati di cui alla lettera b) del predetto n°2°;
IV- per sottufficiali qualificati in carriera continuativa (operai, capi meccanici e capi officina);
V- per ufficiali, come detto nel precedente n° 4°.

Come noto, la scuola avrà altresì le seguenti specie di addestramento:

I- corsi di guida per la truppa;
II- " per istruttori per graduati e sottufficiali di sezione;
III- " corsi formativi per ufficiali delle varie armi da immettere nel corpo automobilistico;
IV- " informativi per ufficiali del corpo automobilistico;
V- corso superiore tecnico per ufficiali del corpo automobilistico.

6°)- Molto apprezzata quanto desiderata la collaborazione offerta anche in questo campo da codesta M.M.I.A. per risolvere l'importante problema.
Data la situazione contingente esso è oggi arduo per la carenza di buoni istruttori idonei a ben disimpegnare il loro incarico. Per tale motivo si rende assolutamente necessario riunire tale personale in unico nucleo di una sola scuola che, sotto una buona direzione, potrà indubbiamente assolvere, con maggior rendimento, gli incarichi addestrativi di ingenti mas-

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

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La scuola stessa assicurerà altresì l'unità di indirizzo addestrativo atto a creare quella nuova mentalità automobilistica, specie nel personale di inquadramento, necessaria non soltanto a fronteggiare l'attuale poco buona situazione, ma a

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

porla in quel livello di cosciente serietà di intenti che costituisce la base morale per il raggiungimento delle finalità anche di carattere tecnico, imposte sia dalla nuova regolamentazione che dai mutati indirizzi della organizzazione automobilistica.

7°)- Per la scuola meccanici di artiglieria oltre a quanto detto al n° 1° della presente e come stabilito nella riunione del 2 febbraio, essa può conservare la denominazione di "scuola meccanici ed operai di artiglieria" suddividendo l'addestramento in due sezioni:

I- per armi della fanteria (fucili,pistole,armi automatiche, mortai e cannoncini da sei libbre ecc.);
II- per l'artiglieria sui cannoni da 25 libbre, da 17 libbre ecc..

In considerazione che codesta M.M.I.A. ben conosce e valuta le difficoltà che si frappongono all'opera di realizzazione completa delle proposte sopra descritte,che sono perfettamente concordanti con i concetti informativi espressi nella lettera ME/22 del 29 gennaio, si chiede, vivamente, l'autorevole e competente opera di collaborazione, offerta nel foglio suddetto, dal Sig.Col. BLUNT. Perchè soltanto con tale effettiva opera, che si basa sulla completa intesa di vedute con codesta Missione, sarà possibile, pervenire alla realizzazione dei problemi in argomento.-

p. IL MINISTRO

6131

Declassified E.O. 12065 Section 1-402/NNBG NO. 785020

...Mortai e cannoncini da sei libbre ecc.);
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p. IL MINISTRO

6131

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

TRANSLATION

from M of W — ref 1088/ord/1

to M.M.I.A. — 26/2/46

(for info)

Replying to letter ME/22 dated 12/2/46

Subject: The School of mechanics and Arty. specialists comes under the School of Arty.

As agreed with M.M.I.A. we order that from 1st March next the School mechanics and arty. specialists, located at Civitavecchia, comes under the arty. School for all purposes.

Therefore the a/m School will be included in the W/E of the Arty. School and no more in the W/E of the moterization Schools, like in the past.

C/a Gen Liuzzi

6130

CL/gi

M I N I S T E R O D E L L A G U E R R A
STATO MAGGIORE REGIO ESERCITO
Ufficio Ordinamento e Mobilitazione

n° 1088 /Ord./I di prot. Roma, lì 26 febbraio 1946

OGGETTO: Passaggio della scuola meccanici ed operai d'artiglieria alla scuola di artiglieria.

AL COMANDO SCUOLE CENTRALI MILITARI — CESANO
e, per conoscenza:
ALLA LAND FORCES SUB COMMISSION A.C. (MMIA) — ROMA
(rif.f. MB/22 data 12/2/46)
AL G A B I N E T T O — SEDE
AL COMANDO MILITARE TERRITORIALE DI — ROMA
ALL'UFFICIO OPERAZIONI E ADDESTRAMENTO — SEDE
ALL'UFFICIO SERVIZI — SEDE

D'intesa con la M.M.I.A. si dispone che con decorrenza 1 marzo p.v., la scuola meccanici ed operai di artiglieria, dislocata in Civitavecchia, passi alla dipendenza a tutti gli effetti della scuola di artiglieria.

Pertanto la scuola in oggetto sarà compresa negli organici della scuola di artiglieria e non più in quelli delle scuole della motorizzazione come per il passato.

IL GENERALE ADDETTO
Giorgio Liuzzi

P. C. C.
COLONNELLO CAPO UFFICIO
(P. Piacentini)

TRANSLATION
630

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

AL COMANDO SCUOLE CENTRALI MILITARI — CESANO

e, per conoscenza:

ALLA LAND FORCES SUB COMMISSION A.C. (MMIA) — ROMA
(rif.f. ME/22 data 12/2/46)

AL G A B I N E T T O — SEDE

AL COMANDO MILITARE TERRITORIALE DI — ROMA

ALL'UFFICIO OPERAZIONI E ADDESTRAMENTO — SEDE

ALL'UFFICIO SERVIZI — SEDE

36

D'intesa con la M.M.I.A. si dispone che con decorrenza 1 marzo p.v., la scuola meccanici ed operai di artiglieria, dislocata in Civitavecchia, passi alla dipendenza a tutti gli effetti della scuola di artiglieria.

Pertanto la scuola in oggetto sarà compresa negli organici della scuola di artiglieria e non più in quelli delle scuole della motorizzazione come per il passato.

IL GENERALE ADDETTO
Giorgio Liuzzi

P. C. C.
IL COLONNELLO CAPO UFFICIO
(P. Piacentini)

Piacentini

TRANSMISSION
IN 1630
Date 26/2
OUT Time 1700
26/2

Traduttori
Priorità II
CI:S
W502
CMT
READY

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

from M of W
to M.M.I.A.

Translation

Subject: School of motorization

ref 21/2/46
no.1046/R/3

ME/22
4/12.

Replying to Your letter ME/22 dated 12 last

14

1. We confirm the necessity of keeping separated the School of mechanics and Arty. specialists of CIVITAVECCHIA from the School of Motorization.
2. The two Schools are given the following nomenclature:
   Schbol of mechanics and Arty. specialists.
   School of mechanics specialised for motorization
3. From now on the a/m nomenclature will be used when the problems concerning a/m Schools are discussed.

C/a

Gen. Liuzzi

R 25/2/46

School of Arty Mechanics & workmen
School of M.T. Specialists Mechanics.
Artillery Repair Training Centre
Motor Repair Training Centre

6128

TO/be

COPIA

Translation
Priority II
L/P 2nd Cert

MINISTERO DELLA GUERRA
STATO MAGGIORE REGIO ESERCITO
UFFICIO OPERAZIONI E ADDESTRAMENTO
SEZIONE ADDESTRAMENTO

N° 1046/R/3 di prot. Add. Roma, li 21 febbraio 1946

OGGETTO: Scuole della motorizzazione.

56

ALLA LAND FORCES SUB COMMISSION - A.C. (M.M.I.A.) ROMA
(risp. MR/22 del 12 corrente)

e, per conoscenza:

AL COMANDO SCUOLE CENTRALI MILITARI
ALLA DIR. GEN. ARTIGL. E MOTORIZZAZIONE
ALL'UFFICIO ORDINAMENTO E MOBILITAZIONE
ALL'UFFICIO SERVIZI

CESANO DI ROMA
S E D E
S E D E
S E D E

****

1.- Si conferma la necessità di distaccare dalla Scuola della motorizzazione la Scuola meccanici e operai di artiglieria di Civitavecchia.

2.- Le due scuole assumono la seguente denominazione:
Scuola meccanici e operai di artiglieria
Scuola meccanici specializzati per la motorizzazione.

3.- Tali denominazioni saranno impiegate d'ora innanzi nella discussione dei problemi inerenti a dette scuole.

IL GENERALE ADDETTO
f° - G. Liuzzi -

P. C. C.

TRANSLATION
6127

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

N° 1046/R/3 di prot. Add. Roma, lì 21 febbraio 1946

OGGETTO: Scuole della motorizzazione.

56

ALLA LAND FORCES SUB COMMISSION - A.C. (M.M.I.A.) ROMA
(risp. ME/22 del 12 corrente)

e, per conoscenza:

AL COMANDO SCUOLE CENTRALI MILITARI	CESANO DI ROMA
ALLA DIR.GEN.ARTIGL. E MOTORIZZAZIONE	S E D E
ALL'UFFICIO ORDINAMENTO E MOBILITAZIONE	S E D E
ALL'UFFICIO SERVIZI	S E D E

^^^^^^^^^^^^^^^^

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Scuola meccanici e operai di artiglieria
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IL GENERALE ADDETTO
f° - G. Liuzzi -

P. C. C.
IL COLONNELLO CAPO UFFICIO
(A. Quercia)

TRANSLATION
6127,1000
IN Date 23/2
OUT Time 1130 25/2

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

ADME

Major Twine called in Monday afternoon.

(1) attached is Syllabus for Candidate Asst. art. (Veh) and Trade Test.

(2) English + Italian designations & locations.

(3) Pass word for School. Obtained from Italian Source.

MF/12

(12)

. Ref Map of Cecchignola

Block 700 will be vacated by the Police on the 24th Feb.

Major Twine & Col. Negri made a Survey of this block. the proposed plan is to move the 1st Bty Dor + Maint, now in Block 2200, and the 2nd Bty Dor + Maint, now in Block 1300 (part of it), into Block 700, which will accomodate 1600 men. the southern part of Block 1100 was to be for Offrs + NCOs. they will then be moved into the vacated portion of Block 1300

~~Below is a more detailed~~ the whole of the Morisation School will then be South of McNarney Blvd.

(Dictated by Major Twine from Memory)

Below is a more detailed report of the recce of Block 700

701 —— garages (or Instructional Workshops)
702 —— Command Building — ground floor for classrooms
1st " " admin offices
Top " " Offrs quaters.

703 } —— Officers quaters
704 }
705 — at present Guard Room + possible Side Bay.
706 } — could not remember.
707 }
708 —— no glass in roof — otherwise probably garages.
709 —— classrooms. already there.
714 —— OR Dining Room and Kitchen — exceedingly good building
715 —— Sgts Mess + Kitchen — not too sure wether will keep as such.
716 —— ?
717 —— Workshops
718 —— Probably Offrs Mess.

— ablutions & Hot Showers — (MPs are

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

Block 700 will be vacated by

Major Twine & Col. Negri made a Survey of this block. The proposed plan is to move the 1st Bty Dvr & Maint, now in Block 2200, and the 2nd Bty Dvr & Maint, now in Block 1300 (part of it), into Block 700, which will accomodate 1600 men. The southern part of Block 1100 was to be for Offrs + NCOs. they will then be moved into the vacated portion of Block 1300

~~Below is a detailed~~ the whole of the Morrisatin School will then be South of McNarney Blvd.

(Dictated by Major Twine from Memory)

Below is a more detailed report of the recce of Block 700

701 —— garages (or Instructional Workshops)
702 —— Command Building — ground floor for classrooms
1st " " admin offices
Top " " Offrs quarters.

703 } —— Officers quarters
704 }
705 — at present Guard Room + possible Sick Bay.
706 } — could not remember.
707 }
708 —— no glass in roof — otherwise probably garages.
709 —— classrooms. already there.
714 —— OR Dining Room and Kitchen — exceedingly good building
715 —— Sgts Mess + Kitchen — not too sure wether will keep as such.
716 —— ?
717 —— Workshops
718 —— Probably Offrs Mess.
719 —— 1/3 garages, remainder ablutions & Hot Showers — CMPs are leaving fixtures.
720 —— 1/3 canteen, middle 1/3 theatre, last 1/3 gym. ~~Theatre~~ Gym will be bedrooms.
721 }
722 } —— Dormitories. these 3 Buildings hold 900 at present, sleeping 12 to a room. But can comfortably get more in.
723 }
710 }
711 } —— Did not visit. Probably Workshops.
713 }
712 —— Sick bay & MI Room — will use this as such and use 705 for overflow (if any).

Police are closing up all latrines and taking fittings. Col. Negri getting Engineers to make some more.

P.T.O.

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Major Twine has visited the Laboratore Prezisione.
the OC is Col De Cola.

They understand exactly what we want done and will carry it out on Major Twine's Signature.

A report to this effect has been made to OC 12 BLU and we have a copy.

Major Twine also visited the Centro Studii.
He had a discussion with the OC who agrees to accomodate the work of sectionalising components for Col. Negri.

Major Twine will make a point of staying in all Thursday morning in case you wish to call him.

WSB.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

SUBJECT : Motorisation Repair Training Centre - Syllabi.

Land Forces Sub Commission, A.C.
(M.M.I.A.) R O M E
ME/22
23 February 1946

Dir.Gen.Artig e Motorizzazione,
Ministry of War.

As agreed verbally with General PROPERSI proposed syllabi for the instruction of soldiers as :-

Aggiustatori
Elettricisti
Meccanici Motoristi
Meccanici Montatori
Meccanici di Sezione
Tornitori

are enclosed herewith for your consideration.

Enclosed also is a proposed timetable for an initial selection course which it is recommended all students should take on arrival at the Centre. As a result of their performance on this selection course it will be possible to allot the suitable ones for training in the trades for which they show most promise. It will also quickly reveal those who have little hope of reaching the lowest standard of trade skill. It is suggested you alter the timetable submitted to allow the introduction of some military training so that the students are not allowed to lose the military qualities they have gained at the CAR from which they have come.

No doubt you will prepare timetables for the classes into which the students are formed when their selection course is finished. May I suggest that you allow six months for the training of aggiustatore, montatori, motoristi and elettricisti, and four months for meccanici di sezione, soldatori, fabri, tornitori, etc.

May we please be informed of any changes you propose to make in these syllabi? When the timetables are ready this HQ will be glad to be informed of their contents.

a Now Flexible courses in selection course.

Declassified E.O. 12065 Section 1-402/NND NO. 785020

Ministry of War.

As agreed verbally with General PROPERSI proposed syllabi for the instruction of soldiers as :-

Aggiustatori
Elettricisti
Meccanici Motoristi
Meccanici Montatori
Meccanici di Sezione
Tornitori

are enclosed herewith for your consideration.

Enclosed also is a proposed timetable for an initial selection course which it is recommended all students should take on arrival at the Centre. As a result of their performance on this selection course it will be possible to allot the suitable ones for training in the trades for which they show most promise. It will also quickly reveal those who have little hope of reaching the lowest standard of trade skill. It is suggested you alter the timetable submitted to allow the introduction of some military training so that the students are not allowed to lose the military qualities they have gained at the CAR from which they have come.

No doubt you will prepare timetables for the classes into which the students are formed when their selection course is finished. May I suggest that you allow six months for the training of aggiustatore, montatori, motoristi and elettricisti, and four months for meccanici di sezione, soldatori, fabri, tornitori, etc.

May we please be informed of any changes you propose to make in these syllabi? When the timetables are ready this HQ will be glad to be informed of their contents.

9 Nov - Forwible slight changes in selection course.

6125

A Blunt
Lt.Col.
A.D.M.E.
M.M.I.A.

Copy to : DADME 12 BLU.
War Diary (2)

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

SELECTION COURSE

TIMETABLE (First three weeks)

ALL MECHANICS.

1. Students to be selected during this period for training as:- Aggiustatore
Motoristi
Montatore
Meccanici-
di Sezione
Tornitori
Elettricisti

TIMETABLE (First week)

Day	0800 - 0915	0930 - 1030	1330 - 1630
Monday	Mathematics	Nomenclature and correct uses of tools and appliances.	Elementary marking off. Use of hack-saw
Tuesday	Mathematics	Introduction of precision instruments.	Practical filing. Demonstration talk on lathe and accessories.
Wednesday	Mathematics	Introductory talk on tools with cutting edges.	Use of chisel to a line. Setting of work in lathe.
Thursday	Classroom exercises with micrometer and vernier.	Grinding and fettling tools with cutting edges.	Marking off - drilling and tapping. First steps in outside turning. Adjustment of tool height etc.
Friday	Principles of hardening and tempering tool steel.	Design and shape of tools.	Firing and simple forging.
Saturday	REVISION		

Declassified E.O. 12065 Section 1-402/NNDC No. 785020

Day	0800 - 0915	0930 - 1030	1330 - 1630
Monday	Mathematics	Nomenclature and correct uses of tools and appliances.	Elementary marking off. Use of hack-saw
Tuesday	Mathematics	Introduction of precision instruments.	Practical filing. Demonstration talk on lathe and accessories.
Wednesday	Mathematics	Introductory talk on tools with cutting edges.	Use of chisel to a line. Setting of work in lathe.
Thursday	Classroom exercises with micrometer and vernier.	Grinding and fettling tools with cutting edges.	Marking off - drilling and tapping. First steps in outside turning. Adjustment of tool height etc.
Friday	Principles of hardening and tempering tool steel.	Design and shape of tools.	Firing and simple forging.
Saturday	REVISION		

6124

Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

SELECTION COURSE
TIMETABLE (Second week)

Day	0800 - 0915	0930 - 1030	1330 - 1630
Monday	Elementary analysis of ferous metals. Iron to high carbon steel.	Effects of heat treament on composition of ferrous metals.	Forging of tools.
Tuesday	Principles of hard and soft soldering. Use of fluxes etc.	Practical soldering	Practical soldering
Wednesday	Mechanical drawing. Use of instruments and interpretation.		Tool forging and tempering.
Thursday	Mechanical drawings of actual work to be produced in Workshops.		Commencment of work as per drawing.
Friday	Continuation of yesterday's drawing.		Continuation of practical.
Saturday	REVISION		

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Wednesday	Mechanical drawing. Use of instruments and interpretation.	Tool forging and tempering.
Thursday	Mechanical drawings of actual work to be produced in Workshops.	Commencment of work as per drawing.
Friday	Continuation of yesterday's drawing.	Continuation of practical.
Saturday	REVISION	

6123

Declassified E.O. 12065 Section 3-402/NNDC HD. 785020

SELECTION COURSE.

TIMETABLE (Third week)

Day	0800 - 0915	0930 - 1030	1330 - 1630
Monday	Nomenclature of parts in a machine e.g. bush, bearing, journal, thrustface, coupling etc.	Principles of rivets and rivetting.	Resumption of last week's practical.
Tuesday	Practical drilling and rivetting.	Exercises with sheet metal and soldering.	Continuation of above.
Wednesday	Practical exercises set by the Instructor.		
Thursday	As above.		
Friday	As above		
Saturday	Examination for all.		

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

Monday	Nomenclature of parts in a machine e.g. bush, bearing, journal, thrustface, coupling etc.	Principles of rivets and rivetting.	Resumption of last week's practical.
Tuesday	Practical drilling and rivetting.	Exercises with sheet metal and soldering.	Continuation of above.
Wednesday	Practical exercises set by the Instructor.		
Thursday	As above.		
Friday	As above		
Saturday	Examination for all.		

6122

Declassified E.O. 12065 Section 3-402/NNDG NND 785020

SYLLABUS FOR TURNERS

First 3 weeks. As per preliminary timetable - for selection.

Mathematics. Correct use of tools. Precision measuring instruments. Introduction of lathe and accessories. Tools with cutting edges. Setting up work in lathe - centreing - tool height. Forging - hardening - tempering. Design and shape of tools.

Elementary analysis of ferrous metals and effects of heat treatment. Mechanical drawing, use of instruments. Interpretation. Tool forging. Use of correct lubricants for cutting.

Nomenclature and correct terms of parts of machinery. Practical turning and boring - parallel and taper.

Introduction to screw cutting - change wheels - thread angles. Practical setting up of wheels - and screw cutting right and left hand thread.

Continue screw cutting - fine cuts, mirror finish, push fit work. Bushings - non ferrous - press in and shrunk on bushes.

Mechanical drawing of special job and production of job.

Test piece - turned to blue print including at least two micrometer dimensions (tolerance + .001" or 0.025 m/m).

Declassified E.O. 12065 Section 3-402/NNRC NO 785020

Mathematics. Correct use of tools. Precision measuring instruments. Introduction of lathe and accessories. Tools with cutting edges. Setting up work in lathe - centreing - tool height. Forging - hardening - tempering. Design and shape of tools.

Elementary analysis of ferrous metals and effects of heat treatment. Mechanical drawing, use of instruments. Interpretation. Tool forging. Use of correct lubricants for cutting.

Nomenclature and correct terms of parts of machinery. Practical turning and boring - parallel and taper.

Introduction to screw cutting - change wheels - thread angles. Practical setting up of wheels - and screw cutting right and left hand thread.

Continue screw cutting - fine cuts, mirror finish, push fit work. Bushings - non ferrous - press in and shrunk on bushes.

Mechanical drawing of special job and production of job.

Test piece - turned to blue print including at least two micrometer dimensions (tolerance + .001" or 0.025 m/m).

6121

Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

SYLLABUS FOR TURNERS

First 3 weeks. As per preliminary timetable - for selection.

Mathematics. Correct use of tools. Precision measuring instruments. Introduction of lathe and accessories. Tools with cutting edges. Setting up work in lathe - centreing - tool height. Forging - hardening - tempering. Design and shape of tools.

Elementary analysis of ferrous metals and effects of heat treatment. Mechanical drawing, use of instruments. Interpretation. Tool forging. Use of correct lubricants for cutting.

Nomenclature and correct terms of parts of machinery. Practical turning and boring - parallel and taper.

Introduction to screw cutting - change wheels - thread angles. Practical setting up of wheels - and screw cutting right and left hand thread.

Continue screw cutting - fine cuts, mirror finish, push fit work. Bushings - non ferrous - press in and shrunk on bushes.

Mechanical drawing of special job and production of job.

Test piece - turned to blue print including at least two micrometer dimensions (tolerance + .001" or 0.025 m/m).

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height. Forging - [illegible]
Design and shape of tools.

Elementary analysis of ferrous metals and effects of heat treatment. Mechanical drawing, use of instruments. Interpretation. Tool forging. Use of correct lubricants for cutting.

Nomenclature and correct terms of parts of machinery. Practical turning and boring - parallel and taper.

Introduction to screw cutting - change wheels - thread angles. Practical setting up of wheels - and screw cutting right and left hand thread.

Continue screw cutting - fine cuts, mirror finish, push fit work. Bushings - non ferrous - press in and shrunk on bushes.

Mechanical drawing of special job and production of job.

Test piece - turned to blue print including at least two micrometer dimensions (tolerance + .001" or 0.025 m/m).

6120

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SYLLABUS FOR ELECTRICIANS.

First 3 weeks. As per preliminary timetable for selection.

General instruction on Magnets (permanent magnets, temporary residual magnetism, magnetic fields, permeability of magnets).

General instruction of electricity.
(direct current, alternating current, frequency, voltage, resistances, series and parallel circuits, electric power, magnetic field, induced electricity, self induction, condensers, transformers.

Magnetos - their functions and construction, description of type - repairs and maintenance.

Distributors - general description of types and construction - repairs and maintenance.

Spark plugs - their function and construction - choice of types - cleaning and maintenance.

Dynamo - its function and construction - normal repairs and the replacement of individual parts. Maintenance. Description of various types.

Electric motors - their function and construction - normal repairs - and replacement of individual parts. Maintenance.

Switchboards - various types - their function and construction. Stripping and assembling.

Voltmeters and ampmeters - methods of determining polarity. Solenoids - electro magnets - bulbs - function and construction of these items.

Tracing of circuits on the instruction bench.

Accumulators - construction and function - rules for charging - preparation of the electrolyte - use of the voltmeter and ammeter - use of the heavy discharge -

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

General instruction on Magnets (permanent magnets, temporary residual magnetism, magnetic fields, permeability of magnets).

General instruction of electricity.
(direct current, alternating current, frequency, voltage, resistances, series and parallel circuits, electric power, magnetic field, induced electricity, self induction, condensers, transformers.

Magnetos - their functions and construction, description of type - repairs and maintenance.

Distributors - general description of types and construction - repairs and maintenance.

Spark plugs - their function and construction - choice of types - cleaning and maintenance.

Dynamo - its function and construction - normal repairs and the replacement of individual parts. Maintenance. Description of various types.

Electric motors - their function and construction - normal repairs - and replacement of individual parts. Maintenance.

Switchboards - various types - their function and construction. Stripping and assembling.

Voltmeters and ammeters - methods of determining polarity. Solenoids - electro magnets - bulbs - function and construction of these items.

Tracing of circuits on the instruction bench.

Accumulators - construction and function - rules for charging - preparation of the electrolyte - use of the voltmeter and ammeter - use of the heavy discharge - voltmeter and hydrometer - maintenance and repair of accumulator.

6119

Charging plants - their construction and types. Instruction in their use.

Maintenance and repair of automobile - lighting and starting circuits.

A lecture on the electrical circuits used on an automobile and the application of the maker's repair manual.

Final examination.

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SYLLABUS FOR DRIVER MECHANICS (Meccanici di sezione).

Students must be qualified drivers before selection for this course.

First 3 weeks. As per preliminary timetable for selection.

1. SECTION A - ENGINE.

(a) Theory - correct nomenclature of parts - principles.
(b) Practical maintenance and light repairs.
(c) Elementary adjustments including tappet clearances.

2. SECTION B - GEAR BOXES - REDUCTION BOXES - CLUTCHES.

Clutches Single dry plate and multiplate type - adjustment of pedal clearance.

Gearboxes General description - and lubrication.

Reduction Boxes General description - explanation of use.

Transmission and Steering Description of various types. Maintenance and adjustment of steering linkage - "toe in" - minor repairs.

3. SECTION C - DIFFERENTIAL AND SUSPENSION.

Axles Description of various types.

Differentials Description and lubrication.

Springs and Shock absorbers General description. Practical stripping, assembling and maintenance.

4. SECTION D - FUEL SYSTEM CARBURRETORS.

Carburretors Description - types - dismantling, cleaning and adjustments.

A.C. Pump & S.U. Pump Description - dismantling and cleaning.

Filters General description.

5. SECTION E - BRAKES.

Mechanical brakes - hydraulic - servo - air. Description - operation - maintenance - rectification of monor faults.

6. SECTION F - MAINTENANCE.

General practice - lubrication - cooling - maintenance manual - monthly inspection of vehicle using A.B. 406. Decarbonising of engine.

7. SECTION G - ELECTRICAL SYSTEM.

Batteries.

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Gearboxes General description - and

Reduction Boxes General description - explanation of use.

Transmission and Steering Description of various types. Maintenance and adjustment of steering linkage - "toe in" - minor repairs.

3. SECTION C - DIFFERENTIAL AND SUSPENSION.

Axles Description of various types.

Differentials Description and lubrication.

Springs and Shock absorbers General description. Practical stripping, assembling and maintenance.

4. SECTION D - FUEL SYSTEM CARBURRETORS.

Carburretors Description - types - dismantling, cleaning and adjustments.

A.C. Pump & S.U. Pump Description - dismantling and cleaning.

Filters General description.

5. SECTION E - BRAKES.

Mechanical brakes - hydraulic - servo - air. Description - operation - maintenance - rectification of monor faults.

6. SECTION F - MAINTENANCE.

General practice - lubrication - cooling - maintenance manual - monthly inspection of vehicle using A.B. 406. Decarbonising of engine.

7. SECTION G - ELECTRICAL SYSTEM.

Electrical theory - practical maintenance - care of batteries.

(a) Charging circuit.
(b) Starting circuit.
(c) Ignition circuit.
(d) lighting circuit.
(e) Accessories.

Limits of repair to be attempted.

8. SECTION H - TYRES.

Functions of tyres - construction of different types - importance of correct air pressure - effects of bad driving, bad brake adjustment, speed - care of synthetic tyres and tubes. Fitting of tyres to varying kinds of wheel - carelessness in use of tools.

Declassified E.O. 12065 Section J-402/NNDC No. 785020

SYLLABUS FOR MECCANICI MOTORISTI

Motor Mechanic (engine)

First 3 weeks. As per preliminary timetable - for selection.

A - PETROL ENGINES

1. The four stroke cycle
2. Description of the parts :-
   Cylinder blocks - cylinder heads - crank cases - pistons - rings - connecting rods - crankshaft - camshaft - timing gears - valve assemblies.
3. Fuel systems :-
   Carburretors and their peculiarities - types and use - petrol pumps - description of three and four stage carburretors.
   Practical experience in the stripping and assembling of engines - rebuilding engines with new components.
4. Magneto ignition and high tension cables - coil ignition - types of spark plugs - types of insulation - timing of magnetos and distributors.
5. Lubrication of the engine - lubrication systems - lubricating oils and their peculiarities.
6. Cooling systems - thermo-syphon and air cooled engines - circulation of the water in the water cooled systems.
7. Starting systems - electrical and manual.
8. Maintenance of the petrol engine.
9. Theory of the two stroke cycle.
   Practical experience in the stripping and assembling of the complete engine on the bench.
10. Decarbonising - setting of tappet clearances.

B - DIESEL ENGINES

1. Two and four stroke high speed diesel engines - (description)
2. Fuel systems - injection pumps - injectors - ignition - filters.
3. Starting of the diesel engine.
4. Instruction on Lancia engine RO3 - Fiat 626 and Fiat 666.
5. Maintenance of the diesel engine - tappet clearances.
   Conducted tours of civil and Military W/Shops in city of ROME.

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connecting rods - crankshaft - camshaft - valve assemblies.

3. Fuel systems :-
   Carburretors and their peculiarities - types and use - petrol pumps - description of three and four stage carburretors.
   Practical experience in the stripping and assembling of engines - rebuilding engines with new components.
4. Magneto ignition and high tension cables - coil ignition - types of spark plugs - types of insulation - timing of magnetos and distributors.
5. Lubrication of the engine - lubrication systems - lubricating oils and their peculiarities.
6. Cooling systems - thermo-syphon and air cooled engines - circulation of the water in the water cooled systems.
7. Starting systems - electrical and manual.
8. Maintenance of the petrol engine.
9. Theory of the two stroke cycle.
   Practical experience in the stripping and assembling of the complete engine on the bench.
10. Decarbonising - setting of tappet clearances.

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2. Fuel systems - injection pumps - injectors - ignition - filters.
3. Starting of the diesel engine.
4. Instruction on Lancia engine RO3 - Fiat 626 and Fiat 666.
5. Maintenance of the diesel engine - tappet clearances.
   Conducted tours of civil and Military W/Shops in city of ROME.

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SYLLABUS FOR MECCANICI MONTATORE
Motor Mechanic (chassis)

First 3 weeks. As per preliminary timetable - for selection.

C - TRANSMISSION

1. Clutches, types - adjustments and maintenance - stripping and assembling
2. Gear boxes - types - maintenance and lubrication stripping and assembling
3. Reduction boxes - types and their uses.
4. Differentials - types - characteristics - lubrication and maintenance - stripping and assembling
5. Propellor shafts and couplings - lubrication and maintenance - stripping and assembling
6. Universal joints.
7. Wheels - types and maintenance - deep well base - spring ring - split wheel
8. Chain transmissions.

D- BRAKES

1. Mechanical and hydraulic brakes - servo system - transmission and wheel brakes.
2. The adjustment and maintenance of brakes.
Oral examinations on a subject chosen by the Instructor

E - TYRES

1. Semi pneumatic tyres - fitting and maintenance. Repairs and vulcanisation.
2. Pneumatic tyres - fitting and maintenance.

F - DRIVERS CONTROLS

1. Steering - description of various types - control and maintenance - repairs and adjustment to steering linkages.
2. Pedals - clutch brake and accelerator.
3. Starting carburretor control.

G - ELECTRICAL SYSTEM

1. Lighting circuits.
2. Charging circuits.
3. Auxiliaries.
4. Care and maintenance of accumulators.
5. Conducted tour of civil and Military Workshops in the city of ROME.

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4. Differentials - types - characteristics - lubrication and maintenance - stripping and assembling
5. Propellor shafts and couplings - lubrication and maintenance - stripping and assembling
6. Universal joints.
7. Wheels - types and maintenance - deep well base - spring ring - split wheel
8. Chain transmissions.

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1. Steering - description of various types - control and maintenance - repairs and adjustment to steering linkages.
2. Pedals - clutch brake and accelerator.
3. Starting carburretor control.

G - ELECTRICAL SYSTEM

1. Lighting circuits.
2. Charging circuits.
3. Auxiliaries.
4. Care and maintenance of accumulators.
5. Conducted tour of civil and Military Workshops in the city of ROME.

61.C

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

SYLLABUS FOR VEHICLE MECHS (AGGIUSTATORE)

First 3 weeks. As per preliminary. timetable - for selection.

A - PETROL ENGINES

1. The four stroke cycle.
2. Description of the parts :-
   Cylinder blocks - cylinder heads - crank cases - pistons - rings - connecting rods - crank shaft - camshaft - timing gears - valve assemblies.
3. Fuel systems :-
   Carburretors and their peculiarities - types and use - petrol pumps - description of three and four stage carburretors - rectification of faults.
   Practical experience in the stripping and assembling of engines - inspecting and gauging of dismantled parts.-
   Fitting new parts.
4. Magneto ignition and high tension cables - coil ignition - types of spark plugs - types of insulation - timing of magnetos and distributors - rectification of faults.
5. Lubrication of engine - lubrication systems - lubricating oils and their peculiarities.
6. Cooling systems - thermo-syphon and air cooled engines - circulation of the water in water cooled systems.
7. Starting systems - electrical and manual.
8. Maintenance of the petrol engine - diagnosis of faults and their rectification.
9. Theory of the two stroke cycle.
   Practical experience in stripping and assembling of the complete engine on the bench.

B - DIESEL ENGINES

1. Two and four stroke high speed diesel engines - (Description)
2. Fuel systems - injection pumps - injectors - ignition - filters.
3. Starting of the diesel engine.
4. Instruction on Lancia engine R03 - Fiat 626 and Fiat 666.

D - TRANSMISSION

1. Clutches, types - adjustments and maintenance - stripping and assembling
2. Gear boxes - types - maintenance and lubrication - stripping and assemblin
3. Reduction boxes - types and their uses.
4. Differentials - types-characteristics - lubrication and maintenance - stripping and assembling.
5. Propellor shafts and couplings - lubrication and maintenance - strippong and assembling.
6. Universal joints.

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connecting rods - crank shaft - camshaft - timing gears -
valve assemblies.

3. Fuel systems :-
   Carburretors and their peculiarities - types and use - petrol pumps - description of three and four stage carburretors - rectification of faults.
   Practical experience in the stripping and assembling of engines - inspecting and gauging of dismantled parts.-
   Fitting new parts.
4. Magneto ignition and high tension cables - coil ignition - types of spark plugs - types of insulation - timing of magnetos and distributors - rectification of faults.
5. Lubrication of engine - lubrication systems - lubricating oils and their peculiarities.
6. Cooling systems - thermo-syphon and air cooled engines - circulation of the water in water cooled systems.
7. Starting systems - electrical and manual.
8. Maintenance of the petrol engine - diagnosis of faults and their rectification.
9. Theory of the two stroke cycle.
   Practical experience in stripping and assembling of the complete engine on the bench.

B - DIESEL ENGINES

1. Two and four stroke high speed diesel engines - (Description)
2. Fuel systems - injection pumps - injectors - ignition - filters.
3. Starting of the diesel engine.
4. Instruction on Lancia engine RO3 - Fiat 626 and Fiat 666.

D - TRANSMISSION

1. Clutches, types - adjustments and maintenance - stripping and assembling
2. Gear boxes - types - maintenance and lubrication - stripping and assemblin
3. Reduction boxes - types and their uses.
4. Differentials - types-characteristics - lubrication and maintenance - stripping and assembling.
5. Propellor shafts and couplings - lubrication and maintenance - strippong and assembling.
6. Universal joints.
7. Wheels - types and maintonance - deep well base - spring ring - split wheel.
8. Chain transmissions.

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(cont.on page 10.)

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SYLLABUS FOR VEHICLE MECHS (AGGIUSTATORE) cont'd.

E - BRAKES

1. Mechanical and hydraulic brakes - servo systems - transmission and wheel brakes.
2. The adjustment and maintenance of brakes.
3. Oral examination on a subject chosen by the Instructor.

F - TYRES

1. Semi pneumatic tyres - fitting and maintenance. Repairs and vulcanisation
2. Pneumatic tyres - fitting and maintenance.

G - DRIVERS CONTROLS

1. Steering - description of various types - control and maintenance - repairs and adjustments to steering linkages.
2. Pedals - clutch, brake and accelerator.
3. Starting carburretor control.

H - ELECTRICAL SYSTEM

1. Lighting circuits and starting circuits.
2. Charging circuits.
3. Auxiliaries.
4. Care and maintenance of accumulators.
5. Conducted tour of civil and military Workshops in the city of ROME.

GENERAL REVISION - EXAMINATION.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

F - TYRES

1. Semi pneumatic tyres - fitting and maintenance. Repairs and vulcanisation
2. Pneumatic tyres - fitting and maintenance.

G - DRIVERS CONTROLS

1. Steering - description of various types - control and maintenance - repairs and adjustments to steering linkages.
2. Pedals - clutch, brake and accelerator.
3. Starting carburretor control.

H - ELECTRICAL SYSTEM

1. Lighting circuits and starting circuits.
2. Charging circuits.
3. Auxiliaries.
4. Care and maintenance of accumulators.
5. Conducted tour of civil and military Workshops in the city of ROME.

GENERAL REVISION - EXAMINATION.

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D.G.Q.A.
War Diary

10

Motorisation Repair Training Centre - Sydstate

As agreed verbally with several PROPERS proposed Sydstate for the instruction of soldiers as

Aggiustatore
Elettricista
Meccanico motorista
Meccanici montatori
Meccanici di sezione
Torniori

are enclosed herewith for your consideration.

Enclosed also is a proposed timetable for an initial selection course which it is recommended all students should take on arrival at the Centre. As a result of their performance on this selection course it will be possible to allot the suitable ones for training in the trades for which they show most promise. It will also quickly reveal those who have little hope of reaching the lowest standard of trade skill. It is suggested you alter the timetable submitted to allow the introduction of some military training so that the students are not classed to have the military qualities they have joined the C.A.R. from which they have come.

No doubt you will prepare timetables for the classes in which the students are formed when their selection course is finished. May I suggest that you allow six months for the training of aggiustatore, montatore, meccanici and elettricisti, and four months for meccanici di sezione, torniori, saldatori, fabbri, etc.

May we please be informed of any changes you propose to make in these syllabi? When the timetables are ready this HQ will be glad to

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Enclosed also is a proforma indicating the selection course which it is recommended all students should take on completion of the training. As a result of their performance on this selection course it will be possible to allot the suitable ones for training in the trades for which they show most promise. It will also quickly reveal those who have a little top of readily the lowest standard of trade skill. It is suggested you alter the time table submitted to allow the introduction of some military training so that the students are not allowed to lose the military qualities they have gained at the CDR from which they have come.

No doubt you will forward time tables for the classes in which the students are formed when their selection course is finished. May I suggest that you allow six months for the training of aggiustatore, meccanici, montatori and elettricisti, and four months for meccanici di seconda linea, saldatori, fabbri, etc.

May we please be informed of any changes you propose to make in these syllabi? When the time tables are ready this HQ will be glad to be acquainted informed of their contents.

6113

G.H.Q: DADME 12 BLU
Van Dray (1)

Lt-Col
A.D.M.E.
M.M.I.A.

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SELECTION Course

TIMETABLE (First three weeks)

~~ALL MECHANICS - TURNERS AND [illegible]~~

page 15-17
page 10

Page 1

1. Students to be ~~selected~~ during this period for training as Aggiustatore / Fresatore / Montatore / Meccanici di seziona / Tornitori / ~~Elettricisti~~

TIMETABLE (First week)

Day	0800 - 0915	0930 - 1030	1530 - 1630
Monday	Mathematics	Nomenclature and correct uses of tools and appliances.	Elementary marking off. Use of hack-saw.
Tuesday	Mathematics	Introduction of precision instruments.	Practical filing. Demonstration talk on lathe and accessories.
Wednesday	Mathematics	Introductory talk on tools with cutting edges.	Use of chisel to a line. Setting of work in lathe.
Thursday	Classroom exercises with micrometer and vernier.	Grinding and fettling tools with cutting edges.	Marking off - drilling and tapping. First steps in outside turning. Adjustment of tool height etc.
Friday	Principles of hardening and tempering tool steel.	Design and shape of tools.	Firing and simple forging.
Saturday	REVISION		

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Day			
Monday	Mathematics	Nomenclature and correct uses of tools and appliances.	Elementary marking off. Use of hack saw.
Tuesday	Mathematics	Introduction of precision instruments.	Practical filing. Demonstration talk on lathe and accessories.
Wednesday	Mathematics	Introductory talk on tools with cutting edges.	Use of chisel to a line. Setting of work in lathe.
Thursday	Classroom exercises with micrometer and vernier.	Grinding and fettling tools with cutting edges.	Marking off - drilling and tapping. First steps in outside turning. Adjustment of tool height etc.
Friday	Principles of hardening and tempering tool steel.	Design and shape of tools.	Firing and simple forging.
Saturday	REVISION		

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SELECTION Course

TIMETABLE (Second week)

Page 2

Day	0800 - 0915	0930 - 1030	1330 - 1630
Monday	Elementary analysis of ferrous metals. Iron to high carbon steel.	Effects of heat treatment on composition of ferrous metals.	Forging of tools.
Tuesday	Principles of hard and soft soldering. Use of fluxes etc.	Practical soldering.	Practical soldering.
Wednesday	Mechanical drawing. Use of instruments and interpretation.		Tool forging and tempering.
Thursday	Mechanical drawings of actual work to be produced in Workshops.		Commencement of work as per drawing.
Friday	Continuation of yesterday's drawing.		Continuation of practical.
Saturday	REVISION ~~Theoretic examinations~~.		

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Wednesday	Mechanical drawing. Use of instruments and interpretation.	Tool forging and tempering.
Thursday	Mechanical drawings of actual work to be produced in Workshops.	Commencement of work as per drawing.
Friday	Continuation of yesterday's drawing.	Continuation of practical.
Saturday	REVISION ~~Quarterly examination~~.	

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SELECTION Course

TIMETABLE (Third week)

Page 13
Page 3

Day	0800 - 0915	0930 - 1030	1330 - 1630
Monday	Nomenclature of parts in a machine e.g., bush, bearing, journal, thrustface, coupling etc.	Principles of rivets and rivetting.	Resumption of last week's practical.
Tuesday	Practical drilling and rivetting.	Exercises with sheet metal and soldering.	Continuation of above.
Wednesday	Practical exercises set by the Instructor.		
Thursday	As above		
Friday	As above		
Saturday	Examination for all		

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Wednesday	Practical exercises set by the Instructor.	
Thursday	As above	
Friday	As above	
Saturday	Examination for all	

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SYLLABUS FOR TURNERS

First 3 weeks. As per preliminary timetable - for selection

~~1st. Week~~

Mathematics. Correct use of tools. Precision measuring instruments. Introduction to lathe and accessories. Tools with cutting edges. Setting up work in lathe - centre-ing - tool height. Forging - hardening - tempering. Design and shape of tools.

~~2nd Week~~

Elementary analysis of ferrous metals and effects of heat treatment. Mechanical drawing, use of instruments. Interpretation. Tool forging. Use of correct lubricants for cutting.

~~3rd. Week~~

Nomenclature and correct terms of parts of machinery. Practical turning and boring - parallel and taper.

~~4th. Week~~

Introduction to screw cutting - change wheels - thread angles. Practical setting up of wheels - and screw cutting R and L hand. thread
right left

~~5th. Week~~

Continue screw cutting - fine cuts, mirror finish, push fit work. Bushings - non ferrous - press in and shrunk on bushes.

~~6th. Week~~:

Mechanical drawing of special job and production of job.

~~7th. Week~~:

Test piece - turned to blue print including at least two micrometer dimensions (tolerance ± .001" or 0.025 m/m).

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~~3rd. Week~~ Nomenclature and correct terms of parts of machinery. Practical turning and boring - parallel and taper.

~~4th. Week~~ Introduction to screw cutting - change wheels - thread angles. Practical setting up of wheels - and screw cutting R and L hand. thread (right left)

~~5th. Week~~ Continue screw cutting - fine cuts, mirror finish, push fit work. Bushings - non ferrous - press in and shrunk on bushes.

~~6th. Week~~ Mechanical drawing of special job and production of job.

~~7th. Week~~ Test piece - turned to blue print including at least two micrometer dimensions (tolerance ± .001" or 0.025 m/m).

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Page 9/10

SYLLABUS FOR ELECTRICIANS

First 3 weeks.

As per preliminary Timetable - for selection ~~screening~~.

~~4th Week~~

General instruction on Magnets (permanent magnets, temporary residual magnetism, magnetic fields, permeability of magnets).

General instruction of electricity.
(direct current, alternating current, frequency, voltage, resistances, series and parallel circuits, electric power, magnetic field, induced electricity, self induction, condensers, transformers.

~~5th Week~~

Magnetos - their function and construction, description of type - repairs and maintenance.

Distributors - general description of types and construction repairs and maintenance.

Spark plugs - their function and construction - choice of types - cleaning and maintenance.

Dynamo - its function and construction - normal repairs and the replacement of individual parts. Maintenance. Description of various types.

Electric motors - their function and construction - normal repairs - and replacement of individual parts. Maintenance.

Switchboards - various types - their function and construction. Stripping and assembling.

Voltmeters and ammeters, methods of determining polarity. solenoids - electro magnets - bulbs - function and construction of these items.

~~6th Week~~

Tracing of circuits on the instruction bench.

Accumulators - construction and function - rules for charging - preparation of the electrolyte - use of the voltmeter and ammeter - use of the heavy discharge - voltmeter and hydrometer - maintenance and repair of accumulator.

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Charging plants - their

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electricity, self induction, condensers, transformers.

5th Week:

Magnetos - their function and construction, description of type - repairs and maintenance.

Distributors - general description of types and construction repairs and maintenance.

Spark plugs - their function and construction - choice of types - cleaning and maintenance.

Dynamo - its function and construction - normal repairs and the replacement of individual parts. Maintenance. Description of various types.

Electric motors - their function and construction - normal repairs - and replacement of individual parts. Maintenance.

Switchboards - various types - their function and construction. Stripping and assembling.

Voltmeters and ammeters, methods of determining polarity. solenoids - electro magnets - bulbs - function and construction of these items.

6th Week

Tracing of circuits on the instruction bench.

Accumulators - construction and function - rules for charging - preparation of the electrolyte - use of the voltmeter and ammeter - use of the heavy discharge - voltmeter and hydrometer - maintenance and repair of accumulator.

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Charging plants - their construction and types. Instruction in their use.

Maintenance and repair of automobile - lighting and starting circuits.

7th Week

A lecture on the electrical circuits used on an automobile and the application of the maker's repair manual

Final examination.

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Meccanici di sezione

SYLLABUS FOR DRIVER MECHANICS (~~CONVERTERS~~)

Students must be qualified drivers before selection for this course.
Test + 3 weeks. As per preliminary timetable - for selection

1. SECTION A - ENGINE (~~one week~~)

   (a) Theory - correct nomenclature of parts - principles
   (b) Practical ~~stripping assembling and maintenance~~ maintenance and light repairs
   (c) ~~Elementary~~ adjustments including tappet clearances

2. SECTION B - GEAR BOXES - REDUCTION BOXES - CLUTCHES (~~one week~~)

   Clutches Single dry plate and multiplate type - adjustment of pedal clearance

   Gearboxes General description - and lubrication.

   Reduction Boxes General description - explanation of use.

   Transmission and Steering Description of various types.
   Maintenance - adjustment of steering linkages - "toe in" - minor repairs
   ~~Practical stripping assembling and maintenance.~~ "~~toe in~~" to "toe in"

3. SECTION C - DIFFERENTIAL AND SUSPENSION (~~one week~~)

   Axles Description of various types.

   Differentials Description and lubrication.

   Springs and Shock absorbers General description.

   Practical stripping assembling and maintenance.

4. SECTION D - FUEL SYSTEM CARBURRETORS (~~one week~~)

   Carburretors Description - types - ~~dismantling, adjustments~~ dismantling, cleaning, & adjustments.

   A.C. Pump
   S.U. Pump Description - ~~servicing~~ dismantling and cleaning

   Filters General description

5. SECTION E - BRAKES (~~one week~~)

   Mechanical brakes - hydraulic - servo - air. Description - operation - maintenance - rectification of minor faults.

6. SECTION F - MAINTENANCE (~~one week~~)

   General practice - lubrication - cooling - ~~stripping and assembling~~ - maintenance manual - monthly inspection of vehicle (~~card~~) using AB 406. Decarbonising of engine.

7. SECTION G - ELECTRICAL SYSTEM

   Electrical theory - practical maintenance - care of batteries
   (a) Charging circuit -

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Reduction Boxes General description - ~~examination by use.~~

Transmission and Steering Description of various types.
maintenance + adjustment of steering linkages - "toe in" - minor repairs
~~Practical stripping assembling and maintenance.~~ ~~Lucas "tobain~~

3. SECTION C - DIFFERENTIAL AND SUSPENSION (~~one week~~)

Axles Description of various types.

Differentials Description and lubrication.

Springs and Shock absorbers General description.

Practical stripping assembling and maintenance.

4. SECTION D - FUEL SYSTEM CARBURETTORS (~~one week~~)

Carburretors Description - types - ~~adjustments~~. dismantling, cleaning, & adjustments

A.C. Pump
S.U. Pump Description - ~~servicing~~. dismantling and cleaning

Filters General description

5. SECTION E - BRAKES (~~one week~~)

Mechanical brakes - hydraulic - servo - air. Description - operation - maintenance - rectification of minor faults.

6. SECTION F - MAINTENANCE (~~one week~~)

General practice - lubrication - cooling - ~~stripping and assembling~~ - maintenance manual - monthly inspection of vehicle (~~unit~~) using AB 406. Decarbonising of engine.

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7. SECTION G - ELECTRICAL SYSTEM

Electrical theory - practical maintenance - care of batteries
(a) Charging circuit.
(b) Starting circuit.
(c) Ignition circuit.
(d) Lighting circuit.
(e) Accessories.
limits of repair to be attempted

8. Section H - Tyres

Terminology of tyres - construction of different types - importance of correct air pressure - effects of bad driving, bad brake adjustment, speed - care of synthetic tyres and tubes.
Fitting of tyres to varying kinds of wheel - carelessness in use of tools.

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~~SYLLABUS FOR INSTRUCTION IN DRILL~~ (~~to attain equivalent~~ during the hours (days)

~~Drivers must be qualified drivers before being selected for this course.~~

Test 3 weeks. As per preliminary timetable - for selection

~~1st. Week~~

A - PETROL ENGINES

1. The four stroke cycle
2. Description of the parts:-
   Cylinder blocks - cylinder heads - crank cases - pistons - rings - connecting rods - crankshaft - camshaft - timing gears - valve assemblies.
3. Fuel systems:-
   Carburretors and their peculiarities - types and use - petrol pumps - description of three and four stage carburretors.
   Practical experience in the stripping and assembling of engines - re building engines with new components

~~2th. Week~~

4. Magneto ignition and high tension cables - coil ignition - types of spark plugs - types of insulation - timing of magnetos and distributors.
5. Lubrication of the engine - lubrication systems - lubricating oils and their peculiarities.
6. Cooling systems - thermo-syphon and air cooled engines - circulation of the water in water cooled systems.
7. Starting systems - electrical and manual.
8. Maintenance of the petrol engine.
9. Theory of the two stroke cycle.
   Practical experience in the stripping and assembling of the complete engine on the bench.
10. De carbonising - setting of tappet clearances

~~3th. Week~~

B - DIESEL ENGINES

1. Two and four stroke high speed diesel engines - (description).
2. Fuel systems - injection pumps - injectors - ignition. - filters
3. Starting of the diesel engine.
4. Instruction on Lancia engine 903 - Fiat 626 and Fiat 666.
5. Maintenance of the diesel engine - tappet clearances
   ~~Practical experience in the maintenance and adjusting of the clutch and brakes etc.~~
   Conducted tours of civil and Military W/Shops in city of ROME.

~~4th. and 5th. Week~~

~~GENERAL REVISION - EXAMINATION~~

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Practical experience in the stripping and assembling of engines - re building engines with new components

~~5th. Week~~

4. Magneto ignition and high tension cables - coil ignition - types of spark plugs - types of insulation - timing of magnetos and distributors.
5. Lubrication of the engine - lubrication systems - lubricating oils and their peculiarities.
6. Cooling systems - thermo-syphon and air cooled engines - circulation of the water in water cooled systems.
7. Starting systems - electrical and manual.
8. Maintenance of the petrol engine.
9. Theory of the two stroke cycle.
   Practical experience in the stripping and assembling of the complete engine on the bench.
10. De carbonising - setting of ~~motor~~ tappet clearances

~~6th. Week~~

B - DIESEL ENGINES

1. Two and four stroke high speed diesel engines - (description)
2. Fuel systems - injection pumps - injectors - ignition. - filters
3. Starting of the diesel engine.
4. Instruction on Lancia engine 903 - Fiat 626 and Fiat 666.
5. Maintenance of the diesel engine - tappet clearances
   ~~Practical experience in the maintenance and adjusting of the clutch and brakes etc.~~
   Conducted tours of civil and Military W/Shops in city of ROME.

~~7th. and 8th. Week~~

~~GENERAL REVIEW - EXAMINATION~~

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SYLLABUS FOR MECCANICI MONTATORE (~~No British equivalent~~) Fitter Motor Vehicles)

~~Students must be qualified Drivers before being selected for this Course.~~

- First 3 weeks. As per preliminary timetable - for selection

~~4th. Week~~

C - TRANSMISSION

1. Clutches, types - adjustments and maintenance. - stripping + assembling
2. Gear boxes - types - maintenance and lubrication. - stripping + assembling
3. Reduction boxes - types and their uses.
4. Differentials - types - characteristics - lubrication and maintenance. - stripping + assembling
5. ~~Chassis~~ - propellor shafts and couplings - lubrication and maintenance - stripping + assembling
6. Universal joints.
7. Wheels - types and maintenance - deep well base - spring ring - split wheel. ~~- fitting and removal of tyres~~
8. Chain transmissions.

~~5th. Week~~ D

D - BRAKES

1. Mechanical and hydraulic brakes - servo systems - transmission and wheel brakes
2. The adjustment and maintenance of brakes.
   Oral examinations on a subject chosen by the Instructor.

~~6th. Week~~ E

E - TYRES

1. Semi pneumatic tyres - fitting and maintenance. Repairs and vulcanisation.
2. Pneumatic tyres - fitting and maintenance.

F

F - DRIVERS CONTROLS

1. Steering - description of various types - control and maintenance - repairs + adjustments to steering linkages
2. Pedals - clutch brake and accelerator.
3. Starting carburretor control.

G

G - ELECTRICAL SYSTEM

1. Lighting circuits, ignition circuits ~~and starting circuits~~
2. Charging circuits.
3. Auxiliaries.
4. Care and maintenance of accumulators.
5. Conducted tour of civil and military Workshops in the

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6. Universal joints.
7. Wheels - types and maintenance - deep well base - spring ring - split wheel. ~~- fitting and removal of tyres~~
8. Chain transmissions.

~~5th. Week~~ D

B - BRAKES

1. Mechanical and hydraulic brakes - servo systems - transmission and wheel brakes.
2. The adjustment and maintenance of brakes.
   Oral examinations on a subject chosen by the Instructor.

~~6th. Week~~ E

E - TYRES

1. Semi pneumatic tyres - fitting and maintenance. Repairs and vulcanisation.
2. Pneumatic tyres - fitting and maintenance.

F

2 - DRIVERS CONTROLS

1. Steering - description of various types - control and maintenance - repairs & adjustments to steering linkages
2. Pedals - clutch brake and accelerator.
3. Starting carburretor control.

G

K - ELECTRICAL SYSTEM

1. Lighting circuits, ignition circuits ~~and starting circuits~~
2. Charging circuits.
3. Auxiliaries.
4. Care and maintenance of accumulators.
5. Conducted tour of civil and military Workshops in the city of ROME.

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~~7th & 8th. Week~~

~~[illegible]~~

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SYLLABUS FOR ~~MOTOR~~ MOBILE MECHS (ACCUMULATORS)

page 9

Candidates for Veh. Mech Course ~~should~~ not to be accepted unless and until they ~~have served for at least six months~~ in the grade of ~~MOTOR~~ AUTOMOBILE MECHANIC or MONITORS.

First 3 weeks. As per preliminary timetable - for selection

~~Theory work~~

A - PETROL ENGINES

1. The four stroke cycle
2. Description of the parts:-
   Cylinder blocks - cylinder heads - crank cases - pistons - rings-connecting rods - crank shaft - camshaft - timing gears - valve assemblies.
3. Fuel systems:-
   Carburretors and their peculiarities - types and use - petrol pumps - description of three and four stage carburretors - rectification of faults
   Practical experience in the stripping and assembling of engines - inspection of dismantled parts.
   ~~Drill work~~ Fitting new parts & gauging
4. Magneto ignition and high tension cables - coil ignition - types of spark plugs - types of insulation - timing of magnetos and distributors - rectification of faults
5. Lubrication of the engine - lubrication systems - lubricating oils and their peculiarities.
6. Cooling systems - thermo-syphon and air cooled engines - circulation of the water in water cooled systems.
7. Starting systems - electrical and manual
8. Maintenance of the petrol engine - diagnosis of faults & their rectification
9. Theory of the two stroke cycle.
   Practical experience in stripping and assembling of the complete engine on the bench.

~~Theory work~~

B - DIESEL ENGINES

1. Two and four stroke high speed diesel engines - (description)
2. Fuel systems - injection pumps - injectors - ignition - filters
3. Starting of the diesel engine.
4. Instruction on Lancia engine 205 - Fiat 626 and Fiat 666.
5. ~~Practical experience in the maintenance and adjusting of the clutch and brakes etc.~~

~~Lubr. Tech~~

D - TRANSMISSION

1. Clutches , types - adjustments and maintenance - stripping & assembling
2. Gear boxes - types - maintenance and lubrication - stripping & assembling
3. Reduction boxes - types and their uses.
4. Differentials - types - characteristics - lubrication and maintenance - stripping & assembling
5. ~~Chassis~~ - propellor shafts and coupllings - lubrication and maintenance - stripping & assembling

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four stage carburettors - inspection of p
Practical experience in the stripping and assembling of engines - inspection of dismantled parts.
Fitting new parts & gauging

~~Week~~

4. Magneto ignition and high tension cables - coil ignition - types of spark plugs - types of insulation - timing of magnetos and distributors - rectification of faults
5. Lubrication of the engine - lubrication systems - lubricating oils and their peculiarities.
6. Cooling systems - thermo-syphon and air cooled engines - circulation of the water in water cooled systems.
7. Starting systems - electrical and manual
8. Maintenance of the petrol engine - diagnosis of faults & their rectification
9. Theory of the two stroke cycle.
   Practical experience in stripping and assembling of the complete engine on the bench.

~~Week~~

B - DIESEL ENGINES

1. Two and four stroke high speed diesel engines - (description)
2. Fuel systems - injection pumps - injectors - ignition - filters
3. Starting of the diesel engine.
4. Instruction on Lancia engine 205 - Fiat 626 and Fiat 666.
5. ~~Practical experience in the maintenance and stripping of the clutch and brakes etc.~~

~~Week~~

D - TRANSMISSION

1. Clutches , types - adjustments and maintenance - stripping & assembling
2. Gear boxes - types - maintenance and lubrication - stripping & assembling
3. Reduction boxes - types and their uses.
4. Differentials - types - characteristics - lubrication and maintenance - stripping & assembling
5. ~~Chassis~~ - propellor shafts and couplings - lubrication and maintenance - stripping & assembling
6 Universal joints.
7. Wheels - types and maintenance - deep well base - spring ring - split wheel.
8. Chain transmissions.

.....OVER

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SYLLABUS FOR VEHICLE MECHS (ACCUMULATORS) cont'd.

~~5th. Week~~

E - BRAKES

1. Mechanical and hydraulic brakes - servo systems - transmission and wheel brakes.
2. The adjustment and maintenance of brakes.
Oral examinations on a subject chosen by the instructor.

~~6th. Week~~

F - TYRES

1. Semi pneumatic tyres - fitting and maintenance. Repairs and vulcanisation.
2. Pneumatic tyres - fitting and maintenance.

G - DRIVERS CONTROLS

1. Steering - description of various types - control and maintenance. repairs & adjustments to steering linkages
2. Pedals - clutch brake and accelerator.
3. Starting carburretor control.

H - ELECTRICAL SYSTEM

1. Lighting circuits and starting circuits.
2. Charging circuits.
3. Auxiliaries.
4. Care and maintenance of accumulators.
5. Conducted tour of civil and military workshops in the city of ROME.

~~7th. & 8th. Week~~

GENERAL REVISION - EXAMINATION.

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2. Pneumatic tyres - fitting and maintenance.

G - DRIVERS CONTROLS.

1. Steering - description of various types - control and maintenance - repairs & adjustments to steering linkages
2. Pedals - clutch brake and accelerator.
3. Starting carburretor control.

H - ELECTRICAL SYSTEM

1. Lighting circuits and starting circuits.
2. Charging circuits.
3. Auxiliaries.
4. Care and maintenance of accumulators.
5. Conducted tour of civil and military workshops in the city of ROME.

~~Feb. - 6th. Week~~

GENERAL REVISION - EXAMINATION.

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SUBJECT: Training.

Land Forces Sub Comm.
AC., (M.M.I.A.) ROME
MB/22
18 FEB 46

G (Trg).

(8)

Reference G/Trg/1 of 7 Jan - para 3 (A).

Below is a draft for the Motorisation Repair Training Centre.

"The Policy of this Centre is to provide personnel for the M.T. repair units, the majority of its students being drawn from the short service personnel who serve only twelve months.

Such students will complete one month military training at a C.A.R. before coming to the Centre, where this technical training will commence, and the War Ministry have agreed to "screen" recruits at C.A.R.'s so that those with previous workshop experience are allocated for this training.

The time spent at this Centre by recruits will vary according to their trade from four months to six months, a portion of the time being set aside for continuance of primary military training. Though the Centre will be run on military lines many of the trade instructors will be civilians.

At the conclusion of their training satisfactory students are posted to Repair Units etc to gain experience in their trade.

A high standard of trade skill is not expected until an adequate time is allowed for teaching a man his trade, and the syllabi are accordingly based on British Class II standards generally, though many of the students will only reach Class III standards.

Policy for the technical training of officers has not yet been received".

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

Below is a draft for the Motorisation Repair Training Centre.

"The Policy of this Centre is to provide personnel for the M.T. repair units, the majority of its students being drawn from the short service personnel who serve only twelve months.

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Policy for the technical training of officers has not yet been received".

W. J. Dill Capt

Lt. Col.
A.D.M.E.
M.M.I.A.

Copy to:
D.A.D.M.E., 12 B.L.U.

R 18-2-16

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

PROGRESS REPORT No. [illegal] REME. less Appendices 'C', 'D', 'E' & 'F'. SECRET.

Progress Report by G.S.O.II Training, 12 British Liaison Unit for the Italian Central Military Schools.

Ref : C/A.3/971

1 February 1946.

Herewith Progress Report for the month of January 1946.

1. GENERAL.

Owing to the Christmas break the majority of Schools did not re-open until the middle of January. This allows little time to judge the extent of the improvement, if any.

The principle hindrances to training and the smooth running of the Centre are :-

(a) The inability of the Ministry of War to fill the vacancies on course. (See Appendix 'H').

(b) The continual late arrival of students on courses.

(c) The uncertainty as to the future, in that some School Commanders and staff are uncertain of their appointments, their future tasks and the accommodation at their disposal.

The early issue of a handbook as proposed by M.M.I.A. will do much to clear the present uncertainty.

2. INFANTRY TRAINING.

At the moment there are 107 Officers and 710 NCOs under training as Instructors for C.A.Rs. The course if of 6 weeks and started on 10 January '46.

Since there has been no official change of establishment since the Centre was formed, the Infantry School is purely improvised to meet present needs. There are many shortages in vehicles, staff and equipment to meet the needs of a well run School. Many of the Instructors and Permanent Staff have, through necessity, had to be employed though they are not up to School standard. The importance of a long break for re-organisation in which training and administration can be thoroughly overhauled cannot be too strongly emphasised.

In spite of this the School does give quite good instruction. The standard is about that of an average British Divisional School. To bring it up to an Army School standard, the break refered to is essential.

Accomodation has been greatly improved, and with a few exceptions, is now good.

The most important constructions required are both matters that have been refered to before but are absolutely essential for an Infantry School. 6102

(a) The building of Drill Squares, and the repair of roads in the Camp. A contract is supposed to have been laid but is being

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(a) The building of Drill Squares, and the repair of roads in the Camp. A contract is supposed to have been laid but is being held up by the War Ministry

(b) The construction of, permanent classification and battle practise ranges. Present ranges are only improvised and are not suitable for what will be the Weapon Training School of the Italian Army.

5. PHYSICAL TRAINING SCHOOL.

This School is at present running a course for 45 pupils. Considering the lack of facilities and equipment it runs very well, largely due to the efforts of the A.P.T.C. personnel attached to the School.

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3. PHYSICAL TRAINING SCHOOL. (Cont'd).

It is considered that while the Italian C.C. shows little drive or initiative, (it is hoped he will be changed shortly) unless the S.I.M.E. have a staff officer to interest himself in Physical Training and Sports, little can be achieved either at the School or in Units.

Sports and Physical Training seem to occupy far too small a place in the training (and in many respects) Welfare set-up.

Every effort must be made to impress on the Italians the importance of this School. It is of the first importance in the training of the new Army and not only are more adequate facilities for training essential, but all ranks should be impressed with its vital importance in the overall training scheme.

A number of manuals were sent for translation over three months ago. These are still not completed.

The Italians, it appears, wish to teach both equitation and pistol shooting (as part of the Pentathlon) in addition to other Gymnastic subjects. 12 horses have been sent which will come in useful for other purposes.

4. S.I.V.A.

(a) Courses during period, as follows :-

	Students.	Duration -	from	to	Object.
A.	15 Colonels.	3 weeks	10 Jan.	31 Jan.	To train RTC Comds.
B.	30 Field Offrs 25 Captains.	6 weeks	10 Jan.	21 Feb.	To train Bn & Coy Comds for RTC's.
C.	M.O's.	3 weeks	10 Jan.	31 Jan.	To train M.O's for RTC's.

(b) Progress of Training.

Great improvement on last course. The student material seems to be better and owing to reasonable numbers the squads have been easy to handle and as a result the subjects are being put over more effectively.

Number of failures is expected to be extremely low.

(c) Accommodation.

This has greatly improved now that the Service Corps has moved into the Baraccamenti (new hutted camp).

(d) Messing.

The standard of messing for the students is now good; in order to improve it a fee of 40 Lire per day per student is charged. This fee is easily covered by the allowances students receive during courses.

(e) Transport.

Vehicles are on the whole in very bad condition and with terribly bad tyres. The addition of one bus has been a great help, but

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(e) Transport.

Vehicles are on the whole in very bad condition and with terribly bad tyres. The addition of one bus has been a great help, but even this is unreliable owing to bad tyres, as a result of which one of the most important day's training was missed, i.e. visit to an establishment in ROME.

(f) Discipline.

The discipline and saluting of the Permanent Staff is really very good, though their turn-out is leaving a lot to be desired, this is probably due to shortage of clothing.

The Baraccamenti is well kept and very clean.

It is very noticeable among the students that Officers will not bother to pull men up if they are idle or fail to salute.

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4. S.I.V.A. (Cont'd).

(g) New Locations.

A visit to Abruzzi Barracks, CIVITAVECCHIA which is to be the new location of CIVA revealed that work being done on these is going extremely slowly.

5. ARTILLERY TRAINING.

General Progress.

During the month of January the School of Artillery has [illegible] Officers and NCOs for Instructional duties in 25 pr, 17 pr, 6 pr and 40 mm Guns at the C.A.R. These courses have made normal satisfactory progress and it is estimated 70 - 80% of the students will qualify as Instructors.

The School has been unable to carry out its normal duties as a School of Artillery during the period. It is felt that the sooner the organisation of the School of Artillery and the C.A.R. can be finally separated the better, so that the School can revert to normal Artillery Instruction.

Details of present Courses.

(a) Duration of courses 6 weeks.

(b) Courses commenced 14 January '46.

(c) All courses are divided into two parts :-

(i) The first four weeks - for instruction in equipment, in Artillery theory, and in the technical and tactical use of the equipments.

(ii) The last two weeks - for practical instruction in the field, for instruction in the "Methods of Instruction" and for testing the students' ability as an Instructor (including lecturettes).

Numbers under Instruction.

Course	25 pr Instructors	17pr & 6pr Instructors	40 mm Instructors
Officers	43 (8 Senior Officers)	19	8
NCOs	71	35	14

In order to produce Instructors for the 6pr Troop at the C.A.R., 4 Officers and 12 NCOs were switched from the 40mm course to the 17pr course and 6pr course on 23 January '46.

Factors detracting from the value of the course.

The main factor detracting from the value of the course is the scarcity of certain much-needed technical stores. In particular

61-0

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Future Courses.

The present courses finish on 23 February. No other courses will be commenced this month. It is believed a course for 40 - 50 NCO Instructors may begin about March.

Administration.

The administration of the Artillery School is in general very satisfactory, although small detachments are apt to be neglected. The following matters however, need attention.

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5. ARTILLERY TRAINING (Cont'd).

(A) Fire precautions, as the water at BRACCIANO is turned off for 13 out of 24 hours there is grave risk in the case of fire. The shortage of water also affects bathing arrangements.

(B) The storage of ammunition leaves much to be desired at present. Either tarpaulins or proper bays should be provided as much is rusty.

6. SIGNAL TRAINING.

(a) General Progress.

Progress has been made during the month with the rehabilation of the barracks and many rooms are now complete with doors and windows. The Central Administrative block has now been occupied and all the offices of the H.Q. of the School are now contained in the one building.

The School now has a new Commandant - Col MANCUSO who assumed command on 12 January '46. The former Commandant, Lieut-Col de MARINIS is now in charge of training at the School.

In view of the expected intake of 2,500 students during the four month period commencing April '46, efforts have been made to obtain additional accommodation.

A new block about 100 yards South of the present Administrative Offices has been released and efforts are being made to put it in order as rapidly as possible.

(b) Courses.

No courses were in progress during the beginning of the month. Two courses, were however, commenced on 21 January '46. One is a course for Potential Signals Instructors and the second is a course for training Carabinieri as wireless instructors.

At present sufficient trained instructors and sufficient stores are available to meet the needs of the School. Considerably more will, however, be required if the School is to train 2,500 Signallers in a four month period. Steps are well in hand to cope with the provision and training of the necessary instructors, while the technical stores have been demanded by the School authorities.

(c) Future Courses.

Proposed syllabi of courses for the training of the April intake have been submitted by the School Authorities to the Comando Scuole Centrali Militari together with a strong representation that the eight weeks technical training proposed by the Scuole Centrali Militari would not be sufficient for certain signal trades.

(d) Administration.

6059

The School appears to have settled down fairly quickly and successfully in its new accommodation. The majority of the personnel appreciate the quality of the accommodation and are attempting to make the administration of the School worthy of its surroundings. In particular the Company Stores and the Technical Stores are very well kept

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The possibility of finding accommodation for the families of the permanent staff is one feature which is occupying the minds of all the married men. There are several blocks of flats in CECCHIGNOLA which are at present occupied by displaced persons. Investigations are proceeding to ascertain whether there is any possibility of any of the flats becoming available in the near future.

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6. SIGNAL TRAINING (Cont'd).

(c) Personnel under Training January 1946.

Personnel under training 1 January 1946 NIL.

Personnel joined during the month.

CC.RR. W/T Course.

Officers	18
WOs and NCOs	66
	84

Potential Instructors Course.

Officers	10
WOs	25
NCOs and Privates	62
	97
Total under Training 28 January '46	181

7. E. & M SCHOOL.

(a) General Progress.

As a result of the New Year holidays and the fact that courses did not commence before the middle of the month, very little progress has been made and no results are available.

(b) Numbers under Training.

Trade	Total
Driver Mechs	172
Vehicle Mechs	42
General Fitters	19
House Electricians	9
Turners	6
	248

(c) Shortage of Equipment and Instructors.

While ample equipment is available and the layout of the School good, there is still a big shortage of Instructors (see below). This is causing difficulty and detracting from the value of the courses now being held.

Instructors - Deficiencies.

	Trade	W.E.	Held.	Deficient.
Officers.	Driver Mechs	1	1	-
	Motor Mechs	1	1	-
	Armourer and Gun Fitter	1	-	1
	W/Shop Officer.	1	1	-
Senior NCOs	Driver Mechs	25	9	16
	Electricians	4	1	3
	" (House)	3	1	2
	Vehicle Mechs	16	1	15

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7. R.A.M SCHOOL.

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Senior NCOs	Driver Mechs	25	9	16
	Electricians	4	1	3
	" (House)	3	1	2
	Vehicle Mechs	16	1	15
	General Fitters	3	2	1
	Armourers	2	2	-
	Workshop	1	1	-

(d) Administration.

Satisfactory.

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6. POLICE SCHOOL.

At present is running a motor cyclist course which is in the second week. Results to date are :-

Satisfactory	34
Backward	14
Total	48

At the moment the Police School is far from satisfactory. The accommodation is very poor and the main reason for it being at CESANO appears to be so that H.Q. Schools has a number of reliable soldiers in the case of an incident. It is felt that unless the School is moved away from the H.Q. that it will continue here to serve the functions of the Divisional C.M.P. than to be an independent School.

The standard of instruction and general appearance of the School has dropped considerably since the British Provost Officer (Captain GORDON) left the D.L.O.

9. SCHOOL OF ADMINISTRATION & WELFARE (RIETI).

The British Unit R.A.C.T.D. vacated RIETI on disbandment on the 12 January '46. In order to ensure an efficient hand-over taking place an advance party was sent by the Comando Scuola Centrali Militari on the 28 Dec 45. At the present time the detachment numbers 11 Officers and 62 O.Rs., commanded by Major SILVESTRI. A quantity of accommodation stores were handed over by RACTD as per list attached.

The buildings actually taken over are the main barracks (surrounded by a high stone wall, with only one entrance) and a large villa situated on the main RIETI-TERNI road and approximatley half-a-mile from the barracks. The latter was used as a Welfare Centre by RACTD and is in first-class condition. Arrangements were made in December for the majority of the furnishings, e.g. curtaining, pictures, and paintings, to remain in the building on financial repayment by the Italian authorities. The intention will be to use this building as an exhibition building in due course.

Many alterations have been made by RACTD during the time they occupied the barracks, hence only very minor R.E. works need to be carried out, e.g. a limited amount of plumbing and whitewashing etc. The barracks will accommodate up to 1,000 men so that there will be plenty of accommodation for the number of students expected (500 - 600). Adequate cookhouses, ablutions and showers exist for both Officers, NCOs and O.Rs. Representations have been made by O.C. detachments for 9 skilled soldiers (5 bricklayers, 2 carpenters, 1 electrician, 1 plumber) to Comando Scuole Centrali Militari, but they have not reported for duty as yet.

It is anticipated that the first courses will commence approximately 1 March but no definite decision has yet been reached.

The main problem at the present moment is with regard to the implementation of the suggested War Establishment. The suggested establishment as per Ministry of War consists of some Officers 16, NCOs 11, and ORs 30. The O.C. maintains this is insufficient for a Unit which is some 78 kilometres from ROME and therefore must be a self-contained unit. A new proposal which has been put forward shows an increase of Officers 4, NCOs 5 and ORs 33. The increase of Officers was requested as the 16 officers proposed are all instructors and consequently no officers are available for regimental duties

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It is anticipated that the first courses will commence approximately 1 March but no definite decision has yet been reached.

The main problem at the present moment is with regard to the implementation of the suggested War Establishment. The suggested establishment as per Ministry of War consists of some Officers 16, NCOs 11, and ORs 30. (C.?) The O.C. maintains this is insufficient for a Unit which is some 70 kilometres from ROME and therefore must be a self-contained unit. A new proposal which has been put forward shows an increase of Officers 4, NCOs 5 and ORs 33. The increase of Officers was requested as the 16 officers proposed are all instructors and consequently no officers are available for regimental duties such as parades, pay etc. Also it is most essential for a unit of this kind to have a Medical Officer and at least two O.R. medical orderlies on establishment, and it is the intention to establish a small hospital in the barracks to save unnecessary evacuation of casualties to ROME. More storemen will also be required to keep up the standard of the various stores to be used for demonstrational purposes.

It is considered that the position as to exactly what the School is intended to teach should be clarified and a syllabus made out accordingly as at the present time some doubt appears to exist on this point.

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10. DRIVING AND MAINTENANCE SCHOOL.

A five weeks D & M course at the Scuola Autieri, which commenced on 15 January '46 is at present running with 416 pupils in attendance.

There is a shortage of Instructors at the moment, though it is not such as to detract seriously the value of the course :

Grade	Present Strength	Required Strength	Deficiencies.
Officer Instructors	9	13	4
NCO "	10	34	24

To offset the deficiency of NCO instructors 8 NCO instructors have since been posted.

Twenty vehicles, of 30 requested, have been received by Scuola Autieri, and there are now sufficient vehicles to provide driving training on a scale of 10 pupils to 1 vehicle. This is not ideal but is a great improvement.

Difficulty is being experienced in obtaining further spare parts required for instructional purposes.

A great deal of R.E. work still needs to be completed such as rendering cooking equipment efficient (at present there are only 6 soyer stoves) mending doors, windows, latrines, ablutions and fitting showers, and class rooms need improvements too.

The implementation of the W.E. of the School of Motorisation, of which the D & M School will become a part, is being commenced. Col [illegible] Automobilistica Corps, has been already appointed Comdt. The syllabus of the 8 weeks Recruit D & M Course is ready, and the Commandant is working on the organisation of the School. Further courses, such as Officers cadet, potential NCOs courses, etc are being organised and syllabi will be drawn up. More R.E. work will be necessary for the further accommodation required when the School of Motorisation is fully functioning.

11. ENGINEER SCHOOL.

During the past month this has been supervised direct from M.M.I.A. by SO. RE.

At the moment the following courses are running.

(a) Course for Instructors for advanced training of Recruits.

17 officers
41 NCOs } 5 weeks.

(b) Mine clearance Course.

300 Total - 3 weeks.

The Engineers are expected to move to AURELIA BARRACKS, CIVITAVECCHIA between 1st and 15th of February.

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Future Courses.

Other than an Armoured Car course which is due to start at CESANO on 7 February '46, exact dates of future courses are not yet to hand.

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of 10 pupils to 1 vehicle. This is not ideal but is a great improvement.

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12. GENERAL ADMINISTRATION CENTRAL MILITARY SCHOOLS.

R.E.M.E. 155 Platoon Workshops.

(a) Progress Made.

Vehicle repairs have been held up by the switch over of drawing stores from English sources to drawing from Italian sources. Applications for spare parts to Italian Ministry of War show that stocks are not yet available, but are on the way, many vehicles are still held in workshop, repaired but awaiting small parts such as Spark Plugs. Repairs turnover is still hampered by shortage of skilled tradesmen (see sub-para (c))

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12 NBMM 155 Platoon Workshops (Cont'd).

Vehicle Repairs for January '46.

Date	B/D Vehs	R/C vehs.
30 Dec 45 - 6 Jan 46	10	4
7 Jan 46 - 14 Jan 46	15	5
15 Jan 46 - 22 Jan 46	14	1
23 Jan 46 - 30 Jan 46	13	3
Totals	52	13

(b) Numbers under Training.

Owing to the shortage of skilled tradesmen, one or two men are being trained with Fitters on vehicles. This plan seems to be working well so far.

(c) Administration.

The difficulty during the last month has been the 'changeover' as regards collecting materials, and the 'close over' from delivering all B.N.E. vehicles to English workshops in NAPLES, to the Italian workshops in BOLOGNA. These Italian workshops are not yet functioning, and there are still a few vehicles in the workshop which were B.L.Rd. and would not have been accepted and it been known that they were to be passed on to BOLOGNA.

Labour shortage is still a big drawback to any attempts at greater production figures. The figures of deficiencies in personnel are as below. With a chance of them shortly bigger proportions in the future, due to a number of the Workshop personnel being due for release from the military services.

Personnel deficiencies.

Trade	W.E.	Held.	Deficient.
Meccanici di macchine	22	6	16
Autisti Meccanici	20	13	7
Elettricisti	6	2	4
Assistenti Meccanici	2	-	2
Idraulicisti	1	-	1

13 ORDNANCE SERVICES.

General.

The change over from British to Italian control is, as shown in detail below, in its most difficult period. Not only for M.T. but also for Guns, Small Arms, there is a great need of spares, as much of the training equipment has been used for a year without a break.

Again, with the reorganisation of Schools, it is essential that proper equipment lists be prepared for each School. At present some of those is as 1938 and some the D.A.D.T. Training Scale. If the preparation of these is to be an Italian responsibility it is of great importance that they should be dealt with by someone qualified to do so, as in the past, Italian ideas as equipment required have not been very sound.

(a) Clothing and Stores.

Stocks of clothing and necessaries in the Italian Supreme

6055

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The difficulty during the last month has been the [illegible] as regards collecting materials, and the 'changeover' from delivering all R.A.R. vehicles to English workshops in ROME, to the Italian workshops in BOLOGNA. These Italian workshops are not yet functioning, and there are still a few vehicles in the workshop which were R.A.M.C. and would have been accepted had it been known that they were to be passed on to BOLOGNA.

Labour shortage is still a big drawback to any attempts at greater production figures. The figures of deficiencies in personnel are as below. With a change of this [illegible] larger proportions in the future, due to a number of the workshop personnel being due for release from the military services.

Personnel deficiencies.

Trade	M.E.	Held.	Deficient.
Meccanici di macchine	22	6	16
Aggiusti Meccanici	20	13	7
Elettricisti	6	2	4
Aggiustatori Meccanici	2	-	2
Saldatori	1	-	1

17 TECHNICAL SERVICES.

General.

The change over from British to Italian control is as [illegible] detail below, in its most difficult period. Not only for M.T. [illegible] for Guns, Small Arms, there is a great need of spares, as much of the training equipment has been used for a year without a break.

Again, with the reorganisation of Schools, it is essential that proper equipment lists be prepared for each School. At present some equipment is [illegible] and some the D.A.T. Training Scale. If the preparation of these is to be an Italian responsibility, it is of great importance that they should be made out by schools qualified to do so, as in the past, Italian lists of equipment required have not been very sound.

60 55

(a) Clothing and Stores.

Stocks of clothing and necessaries in the Italian Storehouse, as at the end of this month will be sufficient to maintain the units of the Schools and the permanent staff, until the summer clothing season starts.

It is understood that the Italian Ministry of War will then be able to supply Khaki Drill. The position for M.T. Spares, Signal Stores, and Gun Parts is not satisfactory at the moment as there has never been a Stores Section; the result being that there are no stocks held of these stores. However, this is being remedied by the Maintenance Pack prepared of all available M.T. and Gun Spares etc which will be available in the near future.

...../5.

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13 ORDNANCE SERVICES. (Cont'd).

(a) Continued.

In the meantime there will be vehicles off the road. A salvage dump of British vehicles has been located in ROME, where cannibalisation of vehicles can be done and the Ministry of War has been informed of this.

Hand over of the DADOS Stores to the Italians is almost complete. In general there has been a big improvement in the methods of storage throughout the Centre. However, many more racks are still required.

14. S.A.A. MATTERS.

Improvements have been made to the Petrol Point but fire precautions are still not adequate - a universal fault throughout the Centre.

It had been hoped that work would commence on the railway line to the Central Stores, but nothing yet has happened.

15. ADMINISTRATION.

(a) Hygiene.

Hygiene is better owing to improved water supply and the fact that buildings now mainly have proper plumbing.

(b) Medical.

The hospital and work of the Unit M.Os appears to be satisfactory. The number of sick is lower than previously with very few infectious diseases.

(c) Morale.

On the whole, very satisfactory.

(d) Welfare.

The previous effort appears to be slackening, though some work may go on behind the scenes.

16 MISCELLANEOUS.

+Results of Courses for T.T.Cs as at Appendix 'A' attached.

Location Statements of Italian Schools. " " Appendix 'B' "

++Staff List of 12 B.L.U. " " Appendix 'C' "

+++Staff List of Italian Officers Lieut-Col and above " " Appendix 'D' "

EOS.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Improvements have been made to the Petrol Point but fire precautions are still not adequate - a universal fault throughout the Centre.

It had been hoped that work would commence on the railway line to the Central Stores, but nothing yet has happened.

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(a) Hygiene.

Hygiene is better owing to improved water supply and the fact that buildings now mainly have proper plumbing.

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(c) Morale.

On the whole, very satisfactory.

(d) Welfare.

The previous effort appears to be slackening, though some work may go on behind the scenes.

16 MISCELLANEOUS.

+Results of Courses for T.T.Os as at Appendix 'A' attached.

Location Statements of Italian Schools. " " Appendix 'B' "

++Staff List of 12 B.L.U. " " Appendix 'C' "

+++Staff List of Italian Officers Lieut-Col and above " " Appendix 'D' "

++Return of British MT held by 12 B.L.U. " " Appendix 'E' "

EOS.

...../10.

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16 MISCELLANEOUS. (Cont'd).

++Deficiencies of all Ranks of 12 B.L.U. as against W.E. including details of all ranks on leave and when due to return.	as at	Appendix 'F' attached.
Suggested schedule for Artillery Signal Recruits	" "	Appendix 'G' "
Comparison between estimated number of students and those received	" "	Appendix 'H' "

+1/4 additional copies to M.M.I.A. for T.T.C's.

++In triplicate to M.M.I.A.

+++To M.M.I.A. only.

Major G3O II,
Tr; & Inf Trg,
12 British Liaison Unit for the
Italian Central Military Schools.

WLP/raw

Internal.

File.
Float.
Spare (2).

6093

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

APPENDEX "A"

To: 2 F.L.U. Progress Report
No.14. dated 1 February 46

RESULTS OF COURSES.

N I L -- No results yet received.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

APPENDIX 'B'
To 12 B.L.U. Progress
Report No. 14.
dtd. 1 Feb '46.

LOCATION STATEMENT OF ITALIAN SCHOOLS.

Serial No.	School.	Location	Map Ref. 1/25,000	Remarks.
1	H.Q., Central Military Schools.	CESANO	Sheet 143-II SW. 618860	
2	Artillery School.	BRACCIANO	Sheet 143-III NE 489903	
3	Engineer School	BRACCIANO	Sheet 143-III NE 480905	To move to CIVITAVECCHIA on 1 FEB '46
4	Signals School	CECCHIGNOLA	1:200,000 Sht.17 F.7458	
5	D & M School	CECCHIGNOLA	1:200,000 Sht.17 F.7458	
6	D & M School	CIVITAVECCHIA F.	1:200,000 180929	To move to CECCHIGNOLA
7	Senior Officers School	MANZIANA	Sheet 143-III NE 456934	S I V A
8	Infantry School	CESANO	Sheet 143-II SE 617872	
9	Police School	CESANO	Sheet 143-II SE 617863	
10	P.T. School	CESANO	Sheet 143-II SE 617876	
11	Holding Party for Engineer School	CIVITAVECCHIA	1:50,000 Sheet 142-II 171953	
12	School of Admin & Welfare	RIETI	1:200,000 F.072+	

6651

APPENDIX "C"

To: 12 B.L.U.Progress Report
No.14 dated 1 Feb. 46.

SUGGESTED SCHEDULE FOR ARTILLERY SIGNAL RECRUITS.

46 hours Week. - 8 Weeks = 384 hours.

		Hours.
1.	Basic electricity and magnetism.	16
2.	Exchange Operating practice and phonogram practices	8
3.	Signal Office Procedure and Records Signal Security (Codes, etc.) ...	4
4.	R/T Procedure	20
5.	L/T Operation, testing and maintenance of eqpt. Telephone D.M.V. - (Fullerphone?) S.U.C.10 Line - (Superimposing Unit?)	10
6.	W/T Sets 18 /48 W/T Sets 19/ 22 Description and netting. Tuning & Remote. Siting, aerials, Wavemeters?	80
7.	Charging and maintenance of batteries ...	8
8.	Line laying - principles and practice ...	40
9.	Exercises	110
10.	Artillery Organisation. Line Layouts, Artillery Procedure, Fire Orders, etc.	48
11.	Drill and P.T. Medical Lectures. Map Reading. Inspections.	40
	TOTAL	384

N.B. No revision, examinations, etc. possible.

60.

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

1.	Basic electricity and magnetism.	16
2.	Exchange Operating practice and phonogram practices	8
3.	Signal Office Procedure and Records Signal Security (Codes, etc.) } ...	4
4.	R/T Procedure	20
5.	L/T Operation, testing and maintenance of eqpt. Telephone D.M.V. - (Fullerphone?) S.U.C.10 Line - (Superimposing Unit?) }	10
6.	W/T Sets 18 /48 } Description and netting. Tuning W/T Sets 19/ 22 } & Remote. Siting, aerials, Wavemeters?	20
7.	Charging and maintenance of batteries ...	8
8.	Line laying - principles and practice ...	40
9.	Exercises	110
10.	Artillery Organisation. Line Layouts, Artillery Procedure, Fire Orders, etc.	48
11.	Drill and P.T. Medical Lectures. Map Reading. Inspections. }	40
	TOTAL	384

N.B. No revision, examinations, etc. possible.

60.

In addition to continued instruction in the above mentioned subjects, Recruits joining their Units should then be instructed in :-

1. Morse. Lamp and Heliograph.
2. Fullerphone?
3. Superimposing Unit?
4. Rifle, P.I.A.T., Bren, T.S.M.G.
5. Mines.
6. Military Law, etc.

Declassified E.O. 12065 Section 3-402/NNDC No. 785020

APPENDIX "E"

To: 12 B.I.U. Progress Report No.14 dated 1 Feb. 46.

COMPARISON BETWEEN ESTIMATED NUMBER OF STUDENTS AND THOSE RECEIVED.

SCHOOL.	ESTIMATED.	RECEIVED.
S.E.V.A.	105 Officers.	93 Officers.
Infantry School and 2nd Regiment.	120 Officers. 670 N.C.Os.	107 Officers. 710 N.C.Os.
Artillery.	190 Officers & NCOs.	195 Officers & NCOs.
Genio (Sappers)*	60 Officers. 190 N.C.Os.	17 Officers. 41 N.C.Os.
Genio (Signallers)(1)	60 Officers. 150 N.C.Os.	19 Officers. 67 N.C.Os.
Genio(Signallers)(2)	364 Officers & OCs.	18 Officers. 66 O.Rs.
L. & K. School.	400 Drivers.	416 Drivers.
M. & M. School.	270, all ranks.	248, all ranks.
Mycdical Training.	80, all ranks.	45, all ranks.

NOTE: *Other than Mine Clearance Course.
(1) Instructors Course.
(2) Carabinieri.

60.

Declassified E.O. 12065 Section 3-402/NNRG NO. 785020

		ARRIVED.
S.I.V.A.	105 Officers.	93 Officers.
Infantry School and 2nd Battalion.	120 Officers. 670 N.C.Os.	107 Officers. 710 N.C.Os.
Artillery.	190 Officers & NCOs.	195 Officers & NCOs.
Genio (Sappers)*	60 Officers. 190 N.C.Os.	17 Officers. 41 N.C.Os.
Genio (Signallers)(1)	80 Officers. 150 N.C.Os.	10 Officers. 67 N.C.Os.
Genio (Signallers)(2)	364 Officers & Ors.	18 Officers. 66 O.Rs.
R. & M. School.	400 Drivers.	416 Drivers.
E. & M. School.	270, all ranks.	248, all ranks.
Physical Training.	80, all ranks.	45, all ranks.

NOTES: *Other than Mine Clearance Course.
(1) Instructors Course.
(2) Carabinieri.

60.

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

SUBJECT: Training of personnel for the Corpo Automobilistico.

Land Forces Sub Comm. AC.
(C.M.I.A.) ROME
MB/ad
/2 Feb.46

Direzione Generale Artiglieria e Motorizzazione.

1. I would refer to my letter MB/22 of 29 January with a request that we be favoured with a reply regarding paragraphs 4 , 5 and 7.

2. I would appreciate any information you can give me regarding the recruitment and selection of officers for the Corpo Automobilistico together with an estimate of the numbers you expect to obtain for training in the next four months.

Lt. Col.
A.D.L.S.
M.M.I.A.

Copy to: G (Trg)
D.A.D.L.S., 12 B L U.

AB/lv

6038

Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

SUBJECT: School of Motorisation.

Land Forces Sub Comm. AC.
(M.M.I.A.) ROME
MS/22
12 Feb 46.

S.M.R.E.

At a conference at this Headquartes on 2nd February you mentioned the separation of the Artillery Repair Training Centre from the Motorisation Repair Training Centre.

There seems to be no objection to this but we request that you inform us of your agreement to the use of the names given above when referring to the school at Civitavecchia (known now as the E & M school) and to the school being installed at Cecchignola for training specialists in repair.

If you can agree to these names, the possibility of confusion might be reduced when discussing these institutions.

AB

Lt. Col.
A.D.M.E.
M.M.I.A.

Copy to: G (Trg)
D.A.D.M.M., 12 B L U

AB/lv

SUBJECT: Training of Personnel.

Land Forces Sub-Comm.A.C.,
(M.M.I.A.) ROME
ME/22
7 Feb. 1946.

D.A.D.M.E.
12 B.L.U.

S.M.R.E. advise that the following numbers will be passing through Training Centres for technical training, commencing with the first call-up:-

MOTORISATION REPAIR TRAINING CENTRE

TRADE	Corpo Automobilistico	Other Arms	Total
1.Meccanici di Sezione (driver mechanic)	138	170	308
2.Aggiustatori (Ldg.Art S/Sgt.)	2	-	2
3.Carpentieri	3	-	3
4.Carrozzieri	4	-	4
5.Elettricisti	40	-	40
6.Fabbri	4	-	4
7.Lamieristi	4	-	4
8.Meccanici montatori (motor mechanic)	54	-	54
9.Meccanici motoristi (motor-mechanic-engine)	60	-	60
10.Meccanici di precisione	4	-	4
11.Meccanici generici	5	-	5
12.Saldatori	15	-	15

ARTILLERY REPAIR TRAINING CENTRE

6087

Operai di artiglieria (gun fitters)	-	30(arty)	30
Armaiuoli	7	105(inf.)	112

Declassified E.O. 12065 Section 3-402/NNEC NO. 785020

S.M.R.E. advise that the following numbers will be passing through Training Centres for technical training, commencing with the first call-up:-

MOTORISATION REPAIR TRAINING CENTRE

TRADE	Corpo Automobilistico	Other Arms	Total
1.Meccanici di Sezione (driver mechanic)	138	170	308
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4.Carrozzieri	4	-	4
5.Elettricisti	40	-	40
6.Fabbri	4	-	4
7.Lamieristi	4	-	4
8.Meccanici montatori (motor mechanic)	54	-	54
9.Meccanici motoristi (motor-mechanic-engine)	60	-	60
10.Meccanici di precisione	4	-	4
11.Meccanici generici	5	-	5
12.Saldatori	15	-	15

ARTILLERY REPAIR TRAINING CENTRE

6087

Operai di artiglieria (gun fitters)	-	30(arty)	30
Armaiuoli	7	105(inf.)	112
Pump fitters	-	28(genio)	28
Motoristi auto		5	5*

* These may be trained at the Motorisation Repair Training Centre.

Capt., R.E.M.E.
for A.D.M.E.
M . M . I . A .

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

Ravell

Zeroing: one point in inches. Range worked for was changed to (not necessarily - generally) figures in the Metric system

PROPOSED COURSE FOR ARMOURERS

DURATION - 8 WEEKS

ME/22

Pupils should be screened at the end of the first two weeks of the course, and these showing mental or physical inaptitude should be rejected.

PROGRAMME.

A. First two weeks:- Chipping, filing and general use of armourers and fitters tools so that the pupil is able to:-
(1) Mark out and chip 2" keyway in a 2" shaft 1¼ cm. 5 cm. 0.8mm to 32" without use of a file.
(2) File and scrap a 4 sq ins flat to .002" .05mm 25 sq cm.
(3) Mark out, drill, then tap squarely to the surface a ½ thread. 1¼ cm.
(4) Scrape a bearing.
(5) Work to a simple sketch or blueprint, and mark off from it.

B. Third week:- Brazing, soldering and tinsmithing so that the pupil is able to braze or solder simple components.

C. Fourth week:- Forging, Forge-welding links, casehardening, browning and blueing so that the pupil is able to forge temper and complete the mainspring of a revolver or spring of similar type.

D. Fifth & sixth week:- Stripping and assembling, stoppages and defects of the following arms:-
(1) rifle,
(2) Thompson,
(3) Bren,
(4) Mortar 2", (2" ≙ 5cm.)
(5) Mortar 3", (3" ≙ 7.5cm.)
(6) Piat.

Zeroing

E. Seventh & eighth week:- Practical general repairs to arms in "D" including elementry woodworking, repairs to stocks and gauging.

N.B. This should bring pupils up to British standard of Armourer Class III.

0 4 0 5

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

PROPOSED COURSE FOR ARMOURERS

DURATION - 8 WEEKS

Pupils should be screened at the end of the first two weeks of the course, and these showing mental or physical inaptitude should be rejected.

PROGRAMME.

A. First two weeks:- Chipping, filing and general use of armourers and fitters tools so that the pupil is able to:-
(1) Mark out and chip ½" keyway in a 2" shaft to 1/32 " without use of a file.
(2) File and scrap a 4 sq ins flat to ·002"
(3) Mark out, drill, then tap squarely to the surface a ½ thread.
(4) Scrape a bearing.
(5) Work to a simple sketch or blueprint, and mark off from it.

B. Third week:- Brazing, soldering and tinsmithing so that the pupil is able to braze or solder simple components.

C. Fourth week:- Forging, Forge-welding links, casehardening, browning and blueing so that the pupil is able to forge temper and complete the mainspring of a revolver or spring of similar type.

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(1) rifle,
(2) Thompson,
(3) Bren,
(4) Mortar 2",
(5) Mortar 3",
(6) Piat.

E. Seventh & eighth week:- Practical general repairs to arms in "D" including elementry woodworking, repairs to stocks and gauging.

0085

N.B. This should bring pupils up to British standard of Armourer Class

SUBJECT:- Training of Personnel for the Corpo Automobilistico.

(2)

Land Forces Sub Comm. AC.
(U.M.I.A.).
MF/22

Direzione Generale Artiglieria & Motorizzazione. 29 Jan 46.

1. I would refer to my conversation with General PROPERSI on Wednesday 23rd January regarding the placing at CECCHIGNOLA of the Motorisation Repair Training Centre, and the possibility of moving there the E & M School from CIVITAVECCHIA. For the information of the General, at his request, I offer below my suggestions on the type of instruction which should be given in these two schools.

2. Considering first the Motorisation Repair Training Centre, I consider that the training of those men who are required to reach only a medium standard of skill should be separated from those who are required to reach a higher standard. I also feel that the training of men for auxiliary trades (e.g. blacksmiths, welders, turners, coachbuilders, etc - but excluding vehicle electricians) should be separated from the remainder of the instruction. I hope that in selecting men to attend courses of instruction at this Centre, some effort will be made at all the Territorial C.A.Rs to select men who have had previous experience in general engineering works or at automobile factories. Such men would commence their course of instruction with a basis of knowledge and experience which would prove invaluable in building up an output of trained specialists of a good standard, considering their youth.

3. I also feel that provision should be made for instructing senior warrant officers who are likely to remain in the Army for a long period, but I appreciate that it may only be possible to commence such instruction when such men are available. Unless you decide to withdraw a proportion of such warrant officers from existing units (which would weaken the units seriously) this course of instruction may have to await the enlistment of long service personnel. Such warrant officers should have had as a guide some seven or ten years experience in general engineering or automobile workshops. This is a very important wing.

4. As regards the training of officers I feel that the procedure should be somewhat different. I feel it undesirable to mix their technical training with that of the men they will eventually control. In any case, though they must have technical knowledge, they will be more concerned with the organisation and operation of workshops etc., than with acquiring great trade skill with their hands (though this would be an asset not lightly to be disregarded). I therefore suggest that a separate establishment (such as the Centro Studi) be used as a part of the Motorisation Repair Training Centre where officers destined for the Corpo Automobilistico could be instructed in their duties in the Corps. I am assuming that officers allotted to the Corpo Automobilistico will have had an engineering training before being sent to this establishment.

6084

Declassified E.O. 12065 Section 3-402/NNDG NO. 785020

offer below my suggestions on the type of instruction which should be given in these two schools.

2. Considering first the Motorisation Repair Training Centre, I consider that the training of those men who are required to reach only a medium standard of skill should be separated from those who are required to reach a higher standard. I also feel that the training of men for auxiliary trades (e.g. blacksmiths, welders, turners, coachbuilders, etc - but excluding vehicle electricians) should be separated from the remainder of the instruction. I hope that in selecting men to attend courses of instruction at this Centre, some effort will be made at all the Territorial C.A.Es to select men who have had previous experience in general engineering works or at automobile factories. Such men would commence their course of instruction with a basis of knowledge and experience which would prove invaluable in building up an output of trained specialists of a good standard, considering their youth.

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5. To sum up, then, my suggestions regarding the Motorisation Repair Training Centre

(A) It should be organised in five wings under a Headquarters responsible to the Direzione Generale Artiglieria e Motorizzazione.

(B) There should be wings for training as follows:-

...../2

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

(i) A wing for driver-mechanics and motor-mechanics i.e. those required to reach a medium standard of skill.

(ii) A wing for vehicle-mechanics and vehicle-electricians i.e. those required to reach a higher standard of skill.

(iii) A wing for senior warrant officers - this wing will only be needed when sufficient long service personnel can be found.

(iv) A wing for auxiliary tradesmen i.e. for blacksmiths, carpenters, turners, etc.

There should be a fifth wing for officers:-

(v) A wing for instructing officers (who have had engineering training) in the duties expected of them in the Corps Automobilistico.

6. If you are in agreement with these suggestions I shall be very glad to collaborate with you regarding the details of the instruction to be given and the standards to be attained by the personnel under instruction.

7. As regards the E & M School I feel that this could be more appropriately called the Artillery Repair Training Centre and that it could be organised with two wings, so as to take cognizance of the types of weapons handled by units of the Army. For example I feel that one wing should instruct on inspection and repairs to weapons which are used only by Infantry (e.g. rifles, pistols, Bren guns, Thompson machine carbines, mortars, and 6 pdrs) whilst the other wing should concern itself primarily with instruction on 25 pdr guns and 17 pdr anti-tank guns.

Again I would be very glad to assist you with the preparation of the instruction given and the standard of knowledge to be attained.

A B Hunt

Lt.Col.
A.D.M.E.
M.M.I.A.

6083

Declassified E.O. 12065 Section 3-402/NNDC NO. 785020

ing training in the Units organised by them in the Corps Automobilistico.

6. If you are in agreement with these suggestions I shall be very glad to collaborate with you regarding the details of the instruction to be given and the standards to be attained by the personnel under instruction.

7. As regards the E & M School I feel that this could be more appropriately called the Artillery Repair Training Centre and that it could be organised with two wings, so as to take cognizance of the types of weapons handled by units of the Army. For example I feel that one wing should instruct on inspection and repairs to weapons which are used only by Infantry (e.g. rifles, pistols, Bren guns, Thompson machine carbines, mortars, and 6 pdrs) whilst the other wing should concern itself primarily with instruction on 25 pdr guns and 17 pdr anti-tank guns.

Again I would be very glad to assist you with the preparation of the instruction given and the standard of knowledge to be attained.

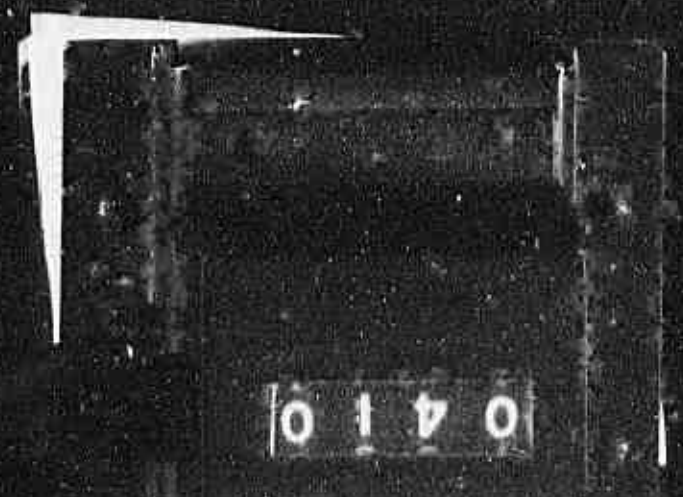
A Blunt

Lt.Col.
A.D.M.E.
M.M.I.A.

6083

Copy to:- G (Trg)
D.A.D.M.E.
12 B.L.U.

Declassified E.O. 12065 Section 3-402/NNDG NO. 785020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