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Declassified E.O. 12065 Section 3-402/NMDC No.

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Courses - Signals

Feb. 1947

Instrument Mechanics Course

Duration of Course - 4 months.

Block Programs

<u>Subject</u>	<u>Number of periods a month</u>				<u>Total</u>
	1	2	3	4	
Physical Training	16	16	16	16	64 (x)
Technical Instruction	100	120	127	127	474
Weapon Instruction	24	6	-	-	30 (x)
Arms Drill and Foot Drill	8	8	8	8	32 (x)
Military Law	4	4	4	4	16 (x)
Rugby	4	2	4	4	14 (x)
Periods at disposition of O.C.	12	12	12	12	48
	156	166	168	168	672

(x) The detailed programs in these subjects is the same as that for the first four months of the Radio Mechanic Course.

Details of Technical Training

First Month.

Electricity and magnetism - 9 periods a week

Electric currents, emf, volts, ohms, Ohm law, cells, accumulators, charging and discharging of accumulators, capacity of condensers.

Practical Work 10 periods a week

Component parts of telegraph instruments, methods of transmission and reception etc.

Notes - 6 periods a week

Technical Instruction

100 130 127 127 47

Weapon Instruction

24 6 - - 30 (x)

Arms Drill and Foot Drill

8 8 8 8 32 (x)

Military Law

4 4 4 4 16 (x)

Hygiene

4 2 1 1 8 (x)

Periods at disposition of O.D. 12 12 12 12 48

168 168 168 168 672

(x) The detailed programs in these subjects is the same as that for the first four months of the Radio Technician Course.

Details of Technical Training

First Month.

Electricity and magnetism - 3 periods a week

Electric currents, emfs, volts, ohms, Ohm's Law, cells, accumulators, charging and discharging of accumulators, capacity of condensers.

Practical Work 10 periods a week

Component parts of telegraph instruments, methods of transmission and reception etc.

Morse - 6 periods a week

Sending and receiving

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Second Month

Electricity and Magnetism - 12 periods a week

Magnetism, magnetic induction, alternating currents, alternating current circuits, impedances and transformers.

Practical Work - 13 periods a week

Work on telegraph instruments - Fullard's M IV - Teleprinters (Olivetti and Sissens)

Third Month

Telephony - 12 periods a week

Component parts of telephones - Details of telephones in use - Telephones 'P', 'L', 'M', 'V'.

Practical Work - 20 periods for 3 weeks
- 19 periods for 1 week.

Practical repairs and fault finding on telegraph instruments

Fourth Month

Telegraphy - 12 periods a week

Details of switchboards in use - U.C. 10 line and P & F 10 line C.D. Exchange.

Practical Work - 20 periods for 3 weeks
- 19 periods for 1 week

Practical repairs and fault finding on all telephones and switchboards

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Wireless Operators Course.Duration - 4 months.Block Program.

<u>Subject</u>	<u>Periods in month.</u>				<u>Total</u>
	<u>1</u>	<u>2</u>	<u>3</u>	<u>4</u>	
Physical Training	16	16	16	16	64 (x)
Technical Instruction	100	120	127	127	474
Weapon Training	24	6	-	-	30 (x)
Arms Drill and Foot Drill	8	8	8	8	32 (x)
Military Law	4	4	4	4	16 (x)
Hygiene	4	2	4	4	8 (x)
Periods at disposition of O.C.	12	12	12	12	48
	168	168	168	168	672

(x) The detailed programme in these subjects is the same as that for the first four months of the Radio Mechanics Course.

Details of Technical Training.1st. Month.

Electricity and Magnetism - 6 periods a week

Electric current - potentials - volts, amp, ohms, Ohm's law - carbon microphones - accumulators - capacity - fixed and variable condensers.

Signal Procedure - 2 periods a week

Methods of communication - security classification - signal priorities.

Arms Drill and Foot Drill	24	6	-	-	-	30 (x)
Military Law	8	8	8	8	8	32 (x)
Hygiene	4	4	4	4	4	16 (x)
Periods at disposition of O.C.	4	2	4	4	4	8 (x)
	12	12	12	12	12	48
	168	168	168	168	168	672

(x) The detailed programme in these subjects is the same as that for the first four months of the Radio Mechanics Course.

Details of Technical Training.

1st. Month.

Electricity and Magnetism - 6 periods a week

Electric current - potentials - volts, amps, ohms, Ohm's law - carbon microphones - accumulators - capacity - fixed and variable condensers.

Signal Procedure - 2 periods a week

Methods of communication - security classifications - signal priorities.

Instruments - 3 periods a week

Telephones D Mk. V - Wireless Set 35 - details and functions of important parts

Morse - 14 periods a week

Sending and receiving.

Second Month.

Electricity and Magnetism - 6 periods a week

Magnetism - alternating current - inductances - transformers - measuring instruments - wavemeters

Signal Procedure - 2 periods a week

Multi-address messages - elementary R.I. procedure.

Instruments - 10 periods in month

Wireless Set 38 - elementary faults - maintenance.

Schemes - 6 periods a week

38 Set schemes.

Morse. - 5 1/4 periods a month.

Sending and receiving.

Third Month.

Electricity Theory. - 5 periods a week

Wireless Waves - propagation and reception - aeriels - valves

Signal Procedure - 2 periods a week

R/T and W/T procedure - procedure signals etc.

Instruments - 10 periods in month

Wireless Sets Nos. 19, 21, 22. - maintenance and elementary faults

Schemes - 4 periods a week

19 and 38 Set schemes

Morse. - 6 3/4 periods a month.

Sending and receiving - practical operating on wireless sets

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Sending and receiving.

Third Month.

Electricity Theory. - 5 periods a week

Wireless Waves - propagation and reception - aerials - valves

Signal Procedure. - 2 periods a week

R/T and W/T procedure - procedure signals etc.

Instruments - 10 periods in month

Wireless Sets Nos. 19, 24, 22. - maintenance and elementary faults

Schemes - 4 periods a week

19 and 38 Set schemes

Morse. - 69 periods a month.

Sending and receiving - practical operating on wireless sets

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Fourth Month.

Electricity Theory - 3 periods a week.

Modulation - elementary sender and receiver circuits

Signal Procedure. - 2 periods a week

General Signal Office procedure and revision.

Fourth Month (continued)

Instruments - 3 periods a week

No 19 sets and No. 9 Sets - maintenance and elementary faults.

Schemes - 35 periods a month.

Schemes with 38 sets, 19 sets, and 9 sets.

Morse - 15 periods a week

Sending and receiving - practical operating on wireless sets.

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