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It is my hope that you find the file of use to you personally – I know that I would have liked to have found some of these files years ago – they would have saved me a lot of time !

Colin Hinson

In the village of Blunham, Bedfordshire.

H.C.P. No.143.

HOME COMMAND  
ROYAL AIR FORCE



AIR TRAINING CORPS

SYLLABUS OF TRAINING

HEADQUARTERS HOME COMMAND

SEPTEMBER 1951

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## I N T R O D U C T I O N

### General

The A.T.C. Syllabus of Training is divided into three main parts under the following headings:- Basic, Proficiency and Advanced Training. The syllabus is designed to cover a period of approximately three years, but since cadets are permitted to join the Air Training Corps at 14 years of age and in some cases may not leave the Corps until they have reached twenty years of age, nothing hard and fast is laid down in this matter. The times allocated to each subject are intended purely as a guide and squadrons should adapt their training programmes according to the district and type of cadet under instruction. For example, cadets from agricultural districts may have greater difficulty with the technical parts of the syllabus than cadets from industrial areas; the squadron training programme should be arranged accordingly. In some cases cadets may experience difficulty in reaching the standard necessary to pass the Proficiency Examination, but since many concessions and privileges are available at this stage, it is not considered desirable to lower the standard.

2. Senior cadets should be encouraged to give instruction; this will benefit not only the cadet himself but may also be of value to the Commanding Officer. The importance of fostering a spirit of leadership cannot be over-emphasised and cadets should be given every opportunity to exercise this quality. It will no doubt be appreciated that the ultimate success of this syllabus will depend largely on the way that Squadron Commanders and their officers carry out their tasks. There may be difficulties in getting the necessary instructors but it must be appreciated that the average officer should be quite capable of lecturing on let us say Survival with the notes provided. It is obviously preferable to have a lecturer with first hand knowledge of the subject, but this should not be essential so far as the Proficiency Examination is concerned except possibly in technical subjects.

3. Summer Camps are the culmination of the training year and as many cadets as possible should be encouraged to attend. They provide an excellent opportunity for cadets to see in practice all they have learned in the year. Summer Camps also give the cadet the opportunity to see the life in the Royal Air Force both at work and at play. In addition to Summer Camps, Squadron Commanders should take full advantage of the facilities offered by the Royal Air Force Station to which the squadron is affiliated. Advantage may also be taken of facilities offered by the Royal Auxiliary Air Force units. Lectures on First Aid should be included in the training programme, arrangements for these lectures should be made through the Station Pre-Entry Training Liaison Officer (P.E.T.L.O.)

### Basic Training

4. The Basic Training Section of the syllabus is intended to provide cadets with a broad General Service background on which subsequent training may be founded and is compulsory.

### Proficiency Training

5. Proficiency Training provides cadets with an opportunity to specialise in Aircrew and General Training, Signals and Electricity and Aircraft Engineering after having passed Part 'A' General Service Training which is compulsory. Other methods of obtaining a Proficiency Certificate are outlined in paragraphs 6, 9, 10 and 11 below

### Part 'E' Proficiency Training

6. Part 'E' Training is designed to alleviate the difficulties which some squadrons may experience in obtaining the services of technical instructors; it follows Part 'A' and is taken instead of Parts 'B', 'C' or 'D'. This training should only be undertaken in exceptional circumstances, since it is anticipated that most squadrons will be able to find a lecturer either locally or among their own officers. If it is impossible to find technical instructors of any sort squadrons must apply to Group Headquarters for authority for the squadron to take Part 'E' of the Proficiency Examination. This application must include full details regarding the necessity for taking this part of the syllabus. Group Headquarters are to investigate the case and if satisfied are to forward the application to Command Headquarters. It should be noted that authority to carry out Part 'E' training is only granted to squadrons as a unit and does not apply to individual cadets. For Part 'E' examination procedure see paragraph 16 below.

7. This training is intended to cover the requirements of certain non-technical occupations in the Royal Air Force; e.g. Physical Training Instructor, Service Police, Royal Air Force Regiment, etc.

#### Advanced Training

8. Advanced Training is a continuation of Proficiency Training with the addition of one or two subjects which have not been introduced earlier in the syllabus.

#### Technical Schools, Colleges and Institutes

9. In order to further offset a lack of technical instructors, cadets who have passed Part 'A' examination at the Proficiency and Advanced stages respectively, may be granted exemption from the other parts of the syllabus by successfully completing courses at Technical Schools, Colleges or Institutes, which are approved by Group Headquarters as being subjects allied to the A.T.C. Training Syllabus. Fees for such training are reimbursable from the Grants Account. Courses at day classes may also be approved. Approval for all courses is initially the responsibility of Groups, who are in a position to investigate doubtful cases on the spot if necessary, but Headquarters, Home Command may in certain cases refuse the issue of a certificate since the standards and type of course vary considerably throughout the country.

10. Exemption from the specialised parts of the syllabus may also be granted to cadets who have obtained the National Certificate of Engineering in the case of the Proficiency stage and the Higher National Certificate of Engineering for the Advanced stage.

#### General Certificate of Education

11. In addition to the exemptions stated above, cadets may be granted exemption from the specialised parts of the syllabus by obtaining the General Certificate of Education with a minimum of three subjects at Advanced Level. Mathematics or Science must be included as one of the three subjects

### EXAMINATION PROCEDURE

#### Basic Training

12. Examinations are to be held under unit arrangements and are to be taken by all cadets. They consist, in the main, of practical tests held locally under the authority of the Commanding Officer of the unit by examining boards convened by him from his officers and instructors. The subjects comprising the examination are shown in the Basic Training Section of this syllabus.

13. A cadet must pass in all subjects before being eligible for reclassification to Cadet First Class. The standard required for a pass is set at not less than 50% in each subject including Morse.

#### Proficiency Training

14. This training is taken after successful completion of Basic Training. Cadets undertaking Proficiency Training must successfully complete the compulsory section i.e. Part 'A' of the Proficiency syllabus before being permitted to sit the written examinations in Part 'B', 'C' or 'D'. Examinations held in the compulsory section Part 'A' are to be held under unit arrangements and will be conducted on the same lines as those outlined for Basic Training. The subjects comprising the examination are shown in the summary for Proficiency Training.

15. Examinations in the remaining sections i.e. Parts 'B', 'C' and 'D' will be held under arrangements made by Headquarters, Home Command. Examination papers for Parts 'B', 'C' and 'D' will be set and marked by the Command Examination Board, Headquarters Flying Training Command. The subjects for examination for these parts are shown in the summary for Proficiency Training. The pass mark required will be set at 50%.

16. As an alternative to the above, and subject to the special conditions outlined in paragraph 6 of the Introduction, cadets may be examined in Part 'E' of this syllabus. When it is considered that a cadet is ready to take the Proficiency examination under this part, the Commanding Officer of the unit is to notify Group Headquarters, who in turn will notify this Headquarters (Attention Command Regiment Officer) when arrangements will be made to provide a specialist officer to conduct the examination

17. Proficiency Training may be resolved into the following alternative categories:-

- (a) Part 'A' plus Part 'B'  
or
- (b) Part 'A' plus Part 'C'  
or
- (c) Part 'A' plus Part 'D'  
or
- (d) Part 'A' plus Part 'E'  
or
- (e) Part 'A' plus:-
  - (i) Satisfactory completion of an approved course
  - (ii) General Certificate of Education in three subjects at Advanced Level, of which Mathematics or Science must be one of the three subjects.
  - (iii) National Certificate of Engineering (see paragraphs 18 and 19)

Part Exemption - Approved Courses

18. In cases where a cadet has successfully completed Part 'A' and an approved course or holds the National Certificate in Engineering, Officers Commanding units are to submit Form 3523 showing details of the marks obtained in Part 'A', the name and address of the School, College or Institute attended, type of course and the dates of commencement and termination of the course, to the appropriate Group Headquarters for onward transmission to Headquarters Home Command for final approval of the award of the Proficiency Certificate and Badge. Prior to forwarding Form 3523 to Command Headquarters, it will be endorsed by Group Headquarters with the following certificate:-

"Certified that the above cadet/s have/has successfully completed an approved course (Name of School, College or Institute)/holds the National Certificate in Engineering # in accordance with the A.T.C. Syllabus of Training 1951."

# Delete as applicable

Part Exemption - General Certificate of Education

19. In cases where a cadet is eligible for the award of the Proficiency Certificate and Badge by having obtained the General Certificate of Education in three subjects at Advanced Level the same procedure as outlined in paragraph 18 above will apply, excepting that the endorsement by Group Headquarters on the Form 3523 will be as follows:-

"Certified that the above named cadet/s is/are in possession of the General Certificate of Education in three subjects at Advanced Level and that Mathematics or Science is included as one of the subjects in accordance with the A.T.C. Syllabus of Training 1951."

Advanced Training

20. This training is voluntary and is taken after successful completion of Proficiency Training. Examinations are held under Command arrangements on the same lines as Proficiency Examinations. The Advanced Training Examination is divided into two categories Aircrew Training and Technical Training. The subjects for examination in these two categories are as shown below:-

(a) Aircrew Training

Navigation (Plotting)  
Navigation (Theory)  
Meteorology  
Airmanship  
Law and Administration

(b) Technical Training

Signals. General paper  
or  
Aircraft Engineering. General paper  
plus  
Law and Administration

21. It will be seen that Law and Administration is common to both Aircrew and Technical Training.

22. Cadets undergoing Aircrew training are required to pass all FIVE parts, the pass mark required for all parts is set at 50%. Should a cadet however, pass in FOUR parts and fail in ONE part, he will not be required to sit the full examination again in order to qualify for the award. In such cases, the parts in which he passes will be credited to him and he may re-sit the examination at a later date, taking only the parts in which he failed on the previous occasion.

23. Cadets undergoing Technical Training will be required to pass the examinations in the appropriate parts plus Law and Administration, making TWO parts in all. The pass mark required in both parts is set at 50%.

#### Part Exemption - Approved Courses

24. The same procedure will apply as for the Proficiency award outlined in paragraph 18 above with the exception that the course must be of SECOND year standard and the Higher National Certificate in Engineering must be held. All cadets must have successfully passed the Law and Administration paper before making application for the award. Group Headquarters are to certify Forms 3521 and 3522 as follows:-

"Certified that the above cadet/s have/has successfully completed and approved course (Name of School, College or Institute)/holds the Higher National Certificate in Engineering # and have/has successfully completed the Law and Administration paper in accordance with the A.T.C. Syllabus of Training 1951 "

# Delete as applicable

#### Part Exemption - General Certificate of Education

25. The same procedure will apply as for the Proficiency award outlined in paragraph 19 above with the exception that cadets must have successfully passed the Law and Administration paper before making application for the award. Group Headquarters are to certify Forms 3521 and 3522 as follows:-

"Certified that the above cadet/s is/are in possession of the General Certificate of Education in three subjects at Advanced Level, one of which includes Mathematics or Science, and have successfully passed the Law and Administration paper in accordance with the A.T.C. Syllabus of Training 1951 "

#### Dates of Examinations

26. Examinations held under unit arrangements may be held at any time during the year.

#### Proficiency

27. The written examination conducted under arrangements made by Headquarters Home Command will be held FIVE times per year; on the THIRD MONDAY of each of the following months:-

FEBRUARY: MAY: JULY: OCTOBER: NOVEMBER.

#### Advanced Training

28. The Advanced Training Examination, also held under arrangements made by Headquarters Home Command will be held THREE times per year in FEBRUARY, MAY and NOVEMBER and will co-incide with the dates for the Proficiency Examination.

#### Procedure and Conduct of Written Examinations

29. All Group Headquarters are to hold stocks of Forms 3521, 3522 and 3523 and supply them on demand to units. These forms are to be demanded by units in quadruplicate and after completion the unit is to retain one copy and forward the remaining three copies to Group Headquarters not later - in respect of Forms 3521 and 3522 - than 28 days, and in respect of Form 3523 - than 21 days prior to the date of the examination.

30. Group Headquarters are to check and retain one copy and forward the remaining two copies, in bulk, to Headquarters Home Command not later than 21 days (Forms 3521 and 3522) and 14 days (Forms 3523) before the date of the examination. Examination question papers will be supplied direct to units from Headquarters Home Command accompanied by one copy of the appropriate form. Completed answer scripts will be arranged in the order shown on the appropriate Form and despatched with it direct to Headquarters Home Command immediately after the examination. With the exception of one copy of each part of the examination, which may be retained by the unit, ALL question papers must be returned with the completed answer scripts. Scripts in bulk will be despatched to the Command Examination Board, Headquarters Flying Training Command by Headquarters Home Command (A.T.C. Examination Centre) not later than the MONDAY following the date of the examination. ANSWER SCRIPTS RECEIVED AFTER THIS DATE WILL BE RETURNED TO THE UNIT.

31. Apart from the individual notification of examination results to units, Command Headquarters will forward to all Group Headquarters a consolidated return, showing the results obtained by all units and showing a percentage comparison between Groups. Surplus copies of the examination papers will also be sent for distribution to units within Groups.

32. Group Headquarters will issue all A.T.C. Proficiency and Advanced Certificates to successful candidates on the written authority of Command Headquarters.

33. Officers Commanding units will issue Proficiency and Advanced Training Badges to cadets as appropriate, on receipt of the examination results from Headquarters Home Command.

#### Invigilation

34. Each R.A.F. Form will contain a Certificate of Invigilation on the reverse side, which will be signed by all members of the Board of Invigilators and all written examinations will be conducted as follows:-

- (a) The Commanding Officer will arrange for not less than two of his officers to serve as President and Member respectively of a Board of Invigilators for written examinations.
- (b) All candidates taking any one subject must sit the paper at the same time. Absentee candidates must not be permitted to take the particular paper on a later occasion. Their paper in that subject must be returned unused.
- (c) The notation "ABSENT" must be made in the appropriate column of the R.A.F. Form in use against the name of any candidate absent. On this Form also, or on a fresh Form if necessary, will be recorded the names and full particulars of any eligible candidates who were not entered originally but who sat with the other candidates and utilised surplus papers.
- (d) The Commanding Officer will ensure that nothing is exhibited in the examination room which might be of assistance to the candidates.
- (e) The minimum necessary equipment for each candidate is one pencil, one rubber and a ruler with simple protractor on the back. Logarithmic tables and slide rules will not be used. Candidates must not be in possession of books, notes or any papers other than those provided for the examination. Scrap paper is not permitted.
- (f) Question papers are supplied in sealed envelopes, one envelope for each subject. The seals on the envelopes will be broken only by the President of the Board of Invigilators in the presence of the candidates immediately before the examination is due to begin.
- (g) Candidates should be instructed to write their name, number, Squadron or Flight in the appropriate place at the head of the question paper .



BASIC TRAINING

SECTION I - DRILL

1. Formation of a Squad. Positions of attention, stand at ease, stand easy.
2. Dressing and numbering
3. Open and Close order. Turning when halted.
4. Saluting.
5. Position in marching. Marching in quick and slow time.
6. Changing step. Side step.
7. Turning when on the march.
8. General revision.
9. Squad moving to a flank changing direction.
10. Sizing a squad.
11. Dismissing a squad.
12. Revision. 12 hours

-----  
SECTION II - P.T.

1. General mobility.
2. Development and strength.
3. Group activities.
4. Agility and game forms.

NOTE:

Details of exercises to be carried out will be found in the Notes to this syllabus and will consist of 12 x 50 minute periods.

10 hours

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SECTION III - GROUND COMBAT TRAINING

1. Weapon Training - Rifle .303
  - (a) Description and cleaning.
  - (b) Loading and unloading.
  - (c) The correct aim.
  - (d) Aiming off.
  - (e) Holding and trigger pressing.
  - (f) Firing from low cover. 4 hours
2. Range Practices - .22 2 hours

SECTION IV - R.A.F. CAREERS FOR THE A.T.C. CADET

1. Value of Proficiency Certificate
2. Entry into the Royal Air Force
3. Concessions to the A.T.C. Cadet
4. National Service Aircrew Entry
5. Entry into the R.Aux.A.F.
6. Aircraft Apprentice Scheme
7. Boy Entrant Scheme 1 hour

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SECTION V - SECURITY

1. The defence against indirect attack.
2. Safeguarding security - the responsibility of the individual. 3 hours

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SECTION VI - RECOGNITION AND USE OF TOOLS

1. Common Hand Tools  
Care and use of:-  
Chisels, files, hammers, hacksaws, spanners, screwdrivers, pliers, rules, dividers, scribers, squares, calipers, feelers.  
Simple marking out.
2. Drilling  
Care and use of different types of drills.  
Lubrication. 3 hours

-----  
SECTION VII - MORSE

1. How to learn the morse symbols - the phonetic alphabet should always be used when speaking of the alphabet.
2. Morse receiving practice.
3. Importance of legible handwriting and recognised methods of printing letters.
4. Morse receiving practice.
5. Numerals and special characters. Methods of writing numerals to prevent mistakes in codes.
6. Morse receiving practice including numerals.
7. Correct handling of the key. Sending practice.
8. Morse instruction, plain language and cypher.
9. Demonstration of signalling lamp.

BASIC TRAINING

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SECTION VII - MORSE (continued)

10. Morse practice.
  11. Morse practice.
  12. Test at 4 w.p.m. 6 hours
- 

SECTION VIII - THE R.A.F. AND THE A.T.C.

1. Tradition in the three Services.
  2. Royal Air Force ranks.
  3. History of the Royal Air Force.
  4. The Role of an Air Force in Peace and War.
  5. History of the Air Training Corps. 5 hours
- 

SECTION IX - MAP READING

1. Introduction to Maps and Charts
2. Topographical Projection.
3. Relief on maps and conventional signs.
4. Principles of map reading.
5. Topographical Maps.
6. Navigational Maps.
7. Landmarks.
8. Map reading in poor visibility and at night.
9. Practical application of map reading in outdoor exercises. 10 hours

NOTE:

Wing Headquarters should demand maps from the Group Navigation Officer as required.

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SECTION X - AIRCRAFT RECOGNITION

1. Table 'A' 4 hours
-

PROFICIENCY TRAINING

PART 'A'

GENERAL SERVICE TRAINING

<u>SECTION</u>	<u>SUBJECT</u>	<u>TIME ALLOCATED</u>
I	DRILL	8 hours
II	P.T.	6 hours
III	GROUND COMBAT TRAINING	8 hours
IV	.303 BROWNING	6 hours
V	MAP READING AND PRACTICAL APPLICATION	8 hours
VI	SURVIVAL IN ALL PARTS OF THE WORLD	3 hours
VII	# R.A.F. CAREERS FOR THE A.T.C. CADET	1 hour
VIII	PRINCIPLES OF FLIGHT	4 hours
		<hr/>
		Total 44 hours
	# Cadets will not be examined in this subject	<hr/>

PART 'B'

AIRCREW AND GENERAL TRAINING

I	NAVIGATION	12 hours
II	METEOROLOGY	4 hours
III	AIRMANSHIP	11 hours
IV	ARMAMENT	12 hours
V	POWER UNITS	5 hours
	(a) Principles of I.C. Engines	
	(b) Principles of Gas Turbines	
		<hr/>
		Total 44 hours

PART 'C'

SIGNALS AND ELECTRICITY

I	SIGNALS PROCEDURE	4 hours
II	PRINCIPLES OF ELECTRICITY AND RADIO	36 hours
		<hr/>
		Total 40 hours

P R O F I C I E N C Y   T R A I N I N G

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P A R T   'D'

AIRCRAFT   ENGINEERING

<u>SECTION</u>	<u>SUBJECT</u>	<u>TIME ALLOCATED</u>
I	METALS, FITTINGS AND TOOLS.	15 hours
II	THEORY OF I.C. ENGINES.	11 hours
III	THEORY OF GAS TURBINES	4 hours
IV	AIRCRAFT STRUCTURE AND COMPONENT PARTS	6 hours
V	AIRCRAFT SERVICING PROCEDURE	4 hours
	<b>Total</b>	<b>40 hours</b>

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P A R T   'E'

SPECIAL GENERAL SERVICE TRAINING

I	DRILL	14 hours
II	P.T.	6 hours
III	STATION ORGANISATION	4 hours
IV	GROUND COMBAT TRAINING	20 hours
V	FIELD SERVICE TRAINING	6 hours
	<b>Total</b>	<b>50 hours</b>

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NOTE:

- In addition the following may be available
    - Instructional Films
    - Demonstration Vehicles
    - Interest Lectures
  - Squadron Commanders should arrange calculations as necessary
-

PROFICIENCY TRAINING

PART 'A'

GENERAL SERVICE TRAINING

SECTION I - DRILL

1. General principles for Rifle exercises.  
Falling in with Rifles at the order. Revision of foot drill.
2. Stand at ease and stand easy from the order. Attention from stand at ease
3. Slope from the order.
4. Marching at the slope.
5. Order from the slope. Turnings on the march at the slope.
6. Marching, halting, saluting at the slope (at the halt)
7. Saluting on the move at the slope.
8. Present from the slope. Slope from the Present.
9. Inspection of arms.
10. Instruction for inspecting arms.
11. Marching Past at the slope. Eyes left and right 8 hours

-----  
SECTION II - P.T.

1. A progression of exercises as laid down in the Notes  
for this syllabus. 6 hours

-----  
SECTION III - GROUND COMBAT TRAINING

1. WEAPON TRAINING

RIFLE .303

- (a) Revision
- (b) Revision
- (c) Revision
- (d) Aiming II. Alteration of sights.
- (e) Bolt manipulation
- (f) Theory of a Group 6 hours

2. RIFLE RANGES

- (a) .22 Rifle Miniature Range Rifle Practices
- (b) .303 Rifle Rifle Course Part I (Instructional)  
2 hours

PROFICIENCY TRAINING

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P A R T 'A' (Continued)

SECTION IV - 303 BROWNING

1. General description
  2. Names of parts
  3. Action
  4. Stripping and Assembly
  5. Changing feed
  6. Care of barrels 6 hours
- 

SECTION V - MAP READING AND PRACTICAL APPLICATION

1. Interpretation of landscapes 2 hours
  2. (a) 2 hours cross country. Local ordnance survey map 1 inch to 1 mile.
  - (b) 2 hours cross country treasure hunt. Exercise planned in lecture room. Completed out of doors. Local 1 inch to 1 mile sheet.
  - (c) 2 hours cross country. Squadron will split into two teams and rendezvous at a given point. Using 1 inch to 1 mile. 6 hours
- 

SECTION VI - SURVIVAL IN ALL PARTS OF THE WORLD

1. Arctic
  2. Desert
  3. Jungle
  4. Sea 3 hours
- 

SECTION VII - R.A.F. CAREERS FOR THE A.T.C. CADET

1. Value of the Proficiency Certificate
  2. Entry into the Royal Air Force
  3. Concessions to the A.T.C. Cadet
  4. National Service Pilot Entry
  5. Entry into the R.Aux.A.F.
  6. Aircraft Apprentices
  7. Boy Entrant Scheme 1 hour
-

PART 'A' (Continued)

SECTION VIII - PRINCIPLES OF FLIGHT

1. Atmosphere
  2. Wind - effect on landing and take-off
  3. Air Resistance
  4. Drag
  5. Lift 4 hours
-



PROFICIENCY TRAINING

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P A R T 'B'

AIRCREW AND GENERAL TRAINING

SECTION I - NAVIGATION

1. Map reading (revision)
2. Form of the earth
3. Magnetism and Compasses
4. Course, track and drift
5. The Triangle of Velocities
6. Navigation instruments
7. Navigation plotting
8. Briefing for Air Navigation exercises 12 hours

-----  
SECTION II - METEOROLOGY

1. Introduction. Clouds, visibility, wind
2. Temperature, pressure, water vapour
3. Weather 4 hours

-----  
SECTION III - AIRMANSHIP

1. Rules of the Air
  - (a) Elementary rules of the air (Flight rules day and night)
  - (b) Quadrantal height separation
2. Aerodrome Control
  - (a) Aerodrome Lay-out
  - (b) Aerodrome signals and ground signals
  - (c) Lamp and pyrotechnic signals
3. Principles of Flight (Revision)
  - (a) Atmosphere
  - (b) Wind - effect on landing and take-off
  - (c) Air resistance
  - (d) Drag
  - (e) Lift
4. Safety Equipment
  - (a) Harnesses - Sutton, Pilot and Navigator
  - (b) Dinghies
5. Survival and Rescue
  - (a) Rescue Organisation 11 hours

PART 'B' (Continued)

SECTION IV - ARMAMENT

1. Gunnery. The theory of gunsighting
  2. Bombing. The theory of sighting
  3. Explosives. General principles 12 hours
- 

SECTION V - POWER UNITS

1. Principles of Internal Combustion Engine
    - (a) Simple four-stroke engine and its component parts
    - (b) Function of each part
    - (c) Otto cycle T.D.C. and B.D.C.
    - (d) Simple carburettor. Principle of simple magneto. Lubrication of I.C. engines. Cooling of I.C. engines, air cooled and liquid cooled. Radiators.
  2. Principles of Jet Propulsion
    - (a) Principles of operation - compression, combustion, expansion through turbine.
    - (b) Radial flow and axial flow engines
    - (c) Propeller jet, turbo jet. 5 hours
-

PART 'C'

SIGNALS AND ELECTRICITY

SECTION I - SIGNALS PROCEDURE

1. General introduction to signalling procedure stressing the advantages and importance of a standard system. General rules relating to operating.
  2. Main components of a message; use of operating signals.
  3. Signals organisation of the R.A.F. Communication system between air and ground.
  4. Practical exercise on 3 above using the Buzzer classroom. 4 hours
- 

SECTION II - ELECTRICITY AND RADIO

1. Construction of matter. Current as a flow of electrons. Conductors and insulators. E.M.F. and closed circuit.
  2. Resistance as opposition to flow of current. Ohm's Law. Specific resistance. Series and Parallel circuits. Volts drop. Electrical units. Simple problems.
  3. Primary and Secondary cells. Cell grouping. Charging circuit. The chemical effect and chemical action. Preparation for charging. Charged and discharged conditions. Capacity. 10 hours rate.
  4. The effects of an electrical current. Heating. Magnetic and chemical. Fields of straight wire and solenoid. Iron cored solenoid. Hysteresis. Simple telephone receiver. Microphone.
  5. Measuring instruments. Moving coil, shunts and multipliers. Moving iron. Hot wire. Thermo junction. Electrostatic. Megger. The motor principle. Faraday's Law. Back voltage of a motor.
  6. Simple motor. Commutator. Field excitation. Shunt motor starter. The dynamo principle and motor generator. Eddy currents and laminations.
  7. Elementary A.C. theory. The series of A.C. current. Series resonance. The parallel A.C. circuit. Parallel resonance. Couple circuit. Transformer matching. H.F. circuits. Selectivity. Radiation from H.F. circuits. Simple receiving circuits. .
  8. The Thermionic Valve. The diode. Diode rectification. Anode load. The triode; characteristic curves and constants. Triode with alternating grid voltage. Class 'A' amplifier. Anode rectifier, as sustainer of electrical oscillations. Tetrode. Pentode. Variable Mu valve. Compound valves.
  9. The Superheterodyne Receiver (in block form only) 36 hours
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PROFICIENCY TRAINING

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PART 'D'

AIRCRAFT ENGINEERING

SECTION I - METALS, FITTINGS AND TOOLS

1. Hand Tools (See also Basic Training)  
Precision instruments. Practical marking out, filing.  
Drilling and tapping. Screw threads.
2. Metals and alloys - recognition and general uses.
3. A.G.S. parts - recognition and uses.  
Heat treatment - ferrous materials and light alloys.  
Light alloys - corrosion and its prevention. 17 hours

SECTION II - THEORY OF I.C. ENGINES

1. Simple four-stroke engine and its component parts.
2. Otto cycle T.D.C. and B.D.C.  
Valve overlap and ignition timing  
Camschaft and magnetic speeds
3. Simple carburettor. Mixture control. Fuel/Air ratios.  
Jets and diffuser. Principle of simple magneto.  
Contact breaker and distributor. Sparking plugs.
4. Lubrication of I.C. engines. Cooling of I.C. engines,  
air cooled and liquid cooled. Radiators. 8 hours

SECTION III - THEORY OF GAS TURBINES

1. Principles of operation - compression, combustion,  
expansion through turbine. Diagramatic representation  
of simple gas turbine - radial flow and axial flow.
2. Component parts - impellers, single and double sided.  
Multi stage axial flow. Simple turbo jet. Gas turbine  
driving propellor. Gas turbine driving ducted fan. 2 hours

SECTION IV - AIRCRAFT STRUCTURE AND COMPONENT PARTS

1. Structure - main components. Fuselage, main planes, tail planes,  
fin, controls, undercarriages. Construction wooden, metal, composite.
2. Flying control systems - ailerons, rudder, elevators, trimming tabs.  
Simple hydraulic system lay-out. Simple pneumatic system.
3. Undercarriages - fixed and retractable.  
Wheels, brakes and tyres. 8 hours

PART 'D' (Continued)

SECTION V - AIRCRAFT SERVICING PROCEDURE

1. Unit Maintenance Orders, Parts 1 and 2  
Air Publications, Vols. I, 2 and 3  
Use of Forms 700 and 700A  
Pilots and ground crews responsibilities
  2. Servicing - purpose of Daily Servicing  
In-between flight inspections.  
Servicing cycles - minors and majors.  
Servicing organisation.
  3. Refuelling. Fuel grades. Precautions during refuelling.  
Fire extinguishers. Earthing and bonding. Care of Hose.  
Oil, lubricants and coolant. Handling and filling.  
Cleaning of aircraft. Perspex cleaning.
  4. Taxiing signals - day and night.  
Towing aircraft. Picketting.  
Precautions during engine starting and running.  
Securing harness. 5 hours
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PART 'E'

SPECIAL GENERAL SERVICE TRAINING

SECTION I - DRILL

1. Examine arms. Order from examine.  
Marching in line and wheeling (at slope)
2. Revision of foot drill. Revision of examine arms.
3. The trail from the order. Order from the trail.  
Marching and wheeling in line (at slope)
4. Change arms at the trail. Marching at the trail.
5. Revision of foot drill. Revision of Rifle exercises.
6. Marching at the slope. Turnings. Eyes right and left  
in threes and eyes right in line.
7. Sling arms. Short trail. Instruction on grounding arms  
and fixing bayonets independently.
8. Revision of rifle exercises.  
On guard from the slope and order.
9. Guard mounting. Relieving and dismounting of guards.
10. Revision and saluting in three stationary and moving points.  
High port from slope and order.
11. Ceremonial guards and sentries.  
Sentries challenging and changing relief. 14 hours

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SECTION II - P.T.

1. The object of this training is to develop leadership and give  
cadets some knowledge of the technique of giving Physical  
Training Instruction.
2. Lessons will be of a practical nature. Details are given in  
the Notes to this syllabus. 6 hours

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SECTION III - STATION ORGANISATION

1. Organisation - general
  2. Operational, technical and administrative control.
  3. Discipline
  4. Station Police, guards, sentries, fire piquets.
  5. Station Committee
  6. Miscellaneous Committees. 4 hours
-

P A R T 'E' (Continued)

SECTION IV - GROUND COMBAT TRAINING

1. WEAPON TRAINING

(a) Bayonet

- (i) On guard hip firing
- (ii) The point
- (iii) Two points
- (iv) The Training Stick

(b) Sten

- (i) Magazine filling - loading and unloading
- (ii) Holding, aiming and firing
- (iii) Stripping and cleaning
- (iv) Revision

(c) Application of Fire

- (i) Elementary observation
- (ii) Locating the enemy
- (iii) Judging the distance
- (iv) Judging the distance
- (v) Judging the distance
- (vi) Fire discipline
- (vii) Revision

2. TACTICS

(a) Movement with and without arms

(b) Camouflage and Fieldcraft

- (i) Personal concealment. Factors affecting visibility of target. Personal factors that affect observation.
- (ii) "Prepare for Battle"; affect of movement; visual inference. Observation off the line of vision.

(c) Cover from fire; selection of fire positions.

(d) Field signals and Section formations.

(e) Individual Stalk.

20 hours

P A R T 'E' (Continued)

SECTION V - FIELD SERVICE TRAINING

1. Hygiene and sanitation (general)
  2. Hygiene and sanitation - distilled water; food; personal hygiene.
  3. First Aid - use of field dressing.
  4. Camp sites and lay-out.
  5. Erection of Bivouac tent.
  6. Knots and lashings.
  7. Improvisation of camp equipment - Ablutions, lavatories, incinerators. 6 hours
-



ADVANCED TRAINING

PART 'A'

GENERAL SERVICE TRAINING

<u>SECTION</u>	<u>SUBJECT</u>	<u>TIME ALLOCATED</u>
I	DRILL	18 hours
II	P.T.	15 hours
III	GROUND COMBAT TRAINING	11 hours
IV	THE ROYAL AIR FORCE	4 hours
V	ROYAL AIR FORCE LAW	2 hours
VI	PRACTICAL MAP READING EXERCISES	14 hours
VII	DISCUSSION PERIODS	6 hours
	Total	70 hours

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PART 'B'

AIRCREW AND GENERAL TRAINING

I	NAVIGATION	14 hours
II	METEOROLOGY	4 hours
III	AIRMANSHIP	17 hours
IV	ARMAMENT	12 hours
V	AIRCRAFT COMPONENTS	13 hours
	Total	60 hours

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PART 'C'

SIGNALS

I	CALL-SIGNS AND OPERATING SIGNALS	10 hours
II	MORSE - SOUND AND VISUAL	16 hours
III	THEORY AND PRACTICAL RADIO	34 hours
	Total	60 hours

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ADVANCED TRAINING

PART 'D'

AIRCRAFT ENGINEERING

<u>SECTION</u>	<u>SUBJECT</u>	<u>TIME ALLOCATED</u>
I	ENGINES	24 hours
II	AIRFRAMES - THEORY	11 hours
III	AIRFRAMES - PRACTICAL	11 hours
IV	AIRCRAFT COMPONENTS	14 hours
	Total	60 hours

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NOTE:

1. Synthetic training devices should be used according to circumstances.
2. Exercises in calculations for this syllabus should be given to cadets as necessary.

ADVANCED TRAINING

PART 'A'

GENERAL SERVICE TRAINING

SECTION I - DRILL

1. Revision.
2. The Trail from the Order. The Order from the Trail.
3. Change Arms when at the Trail.
4. The Short Trail.
5. Sling Arms.
6. The On-Guard from the Slope and vice versa.
7. The On-Guard from the Order and vice versa.
8. Ground Arms and Take Up Arms.
9. Guard Mounting (Ceremonial) - Principles.
10. Relieving, Posting or Dismissing a Guard.
11. Procedure for a Guard turning out for inspection by an officer.
12. Posting of, Movements by, and relief of Sentries. Marching reliefs.
13. Sentries challenging. Guards turning out at night.  
Guards mounted for protection. 18 hours

-----  
SECTION II - P.T.

1. Progression of exercises as in Proficiency Part 'A'
2. Coaching in National games.
3. Swimming Test.
4. Test of self reliance and initiative.
5. The elementary principles of instruction;-
  - (a) The art of giving a word of command.
  - (b) Safety precautions
    - (i) In the gymnasium
    - (ii) Progression
  - (c) Preparation of lessons etc, according to time available. 15 hours

-----  
SECTION III - GROUND COMBAT TRAINING

1. Range Practices  
Rifle .303
2. Weapon Training
  - (a) Bayonet
  - (b) On guard hip firing and controlled charge
  - (c) The Points
  - (d) The Training Stick

PART 'A' (Continued)

SECTION III - GROUND COMBAT TRAINING (Continued)

3. Application of Fire
  - (a) Searching ground and locating enemy
  - (b) Judging distance
  - (c) Recognition of targets
  - (d) Fire control orders
4. Tactics
  - (a) Movement with and without arms
  - (b) Individual stalk
5. Discipline and Morale
6. Leadership 11 hours

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SECTION IV - THE ROYAL AIR FORCE

1. R.A.F. Organisation
  - (a) Organisation and chain of command
  - (b) Branches of the Royal Air Force
  - (c) The Trade Structure
  - (d) Equivalent ranks
2. Tactical and Strategic Roles of aircraft 4 hours

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SECTION V - AIR FORCE LAW

1. History and Development of Military Law
2. The Air Force Act
3. Civil and R.A.F. Law
4. Arrest and Custody
5. Minor Offences
6. Courts Martial 2 hours

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SECTION VI - PRACTICAL MAP READING EXERCISES

1. These exercises should take a form which is most suited to local conditions. It is suggested that parties of cadets should follow a specified cross-country route and rendezvous at a given point. Evasion exercises should also be organised.
2. It is realised that some squadrons may find it impracticable to carry out these exercises owing to local conditions. Squadron Commanders should therefore adapt these exercises in order to meet the needs of their particular squadron. 14 hours

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SECTION VII - DISCUSSION PERIODS

1. See Notes for guidance on this subject. 6 hours

PART 'B'

AIRCREW AND GENERAL TRAINING

SECTION I - NAVIGATION

1. Ground and Air positions
2. Position lines
3. Dead reckoning
4. The air plot
5. Revision and plotting
6. Briefing for Air Navigation exercises 12 hours

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SECTION II - METEOROLOGY

1. Background to the weather map
2. The weather map
3. Pressure system 4 hours

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SECTION III - AIRMANSHIP

1. Rules of the Air
    - (a) Authorisation - clearance - notification - approval
    - (b) Emergency procedure
  2. Aerodrome Control
    - (a) Air Traffic Control Service - General
    - (b) Local Aerodrome Control
    - (c) Approach Control
  3. Principles of Flight
    - (a) Straight and level flight
    - (b) Gliding and climbing and stalling
    - (c) Turns
    - (d) Slots and Flaps
    - (e) High Speed Flight - General consideration and outlook.
  4. Safety Equipment
    - (a) Dinghy Drill
    - (b) Projector Seat
    - (c) Harnesses 17 hours
-

PART 'B' (Continued)

SECTION IV - ARMAMENT

1. Bombs and Components
  - (a) Construction of practice bombs
  - (b) Fillings
  - (c) Smoke and Flash
  - (d) Main type of H.E. Bombs
  
2. .303 Browning
  - (a) Revision
  - (b) Stoppages - clearing
  - (c) Care of barrels
  - (d) .303 firing
  - (e) Maintenance
  
3. Rocket Projectiles
  - (a) Rockets - various types
  - (b) Methods of use12 hours

SECTION V - AIRCRAFT COMPONENTS

1. Propellers. V.P. principle. Hydraulic propellers. Feathering, installation, checking.
  
  2. Electrical Equipment. Generators and automatic control of voltage. Lighting and Navigation lamps. Indicators. Cells.
  
  3. Instruments. Engine instruments. Flying and Navigation instruments. Pitot Heads. Compasses. Oxygen installation. Cameras.
  
  4. Switches and Switch Wiring. Sparking plugs, dismantling and testing, cleaning.
  
  5. Fuel Pumps, Coolant Pumps. Practical work should be devoted to demonstration of components or Air Diagrams of same.
- 13 hours

P A R T 'C'

SIGNALS

SECTION I - CALL-SIGNS AND OPERATING SIGNALS

- |    |   |          |
|----|---|----------|
| 1. | Simple call signs - Prosigns DE & R     |          |
| 2. | Individual and Collective call signs    |          |
| 3. | Individual Preliminary call and answers |          |
| 4. | Prosign K & R                           |          |
| 5. | Operating Signals                       |          |
| 6. | Prosign IMI                             | 10 hours |

NOTE

1. Cadets should progress from 4 w.p.m. to 8 w.p.m. during this period.
2. Simple procedure should be introduced progressively with each period of instruction.
3. Visual signalling in the open should be introduced as a variation to buzzer work.

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SECTION II - MORSE, SOUND AND VISUAL

- |    |   |          |
|----|---|----------|
| 1. | Morse instruction is best divided into 32 periods of 30 minutes duration and should be interspersed with the procedure lessons and used to demonstrate the R.A.F. procedure in the previous lessons.<br>Morse test at 12 w.p.m. | 16 hours |
|----|---|----------|

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SECTION III - THEORY AND PRACTICAL RADIO

- |    |  |          |
|----|--|----------|
| 1. | Aerial tuning circuits. Diode detection. CW or ICW. Reception of CW. The heterodyne principle. A.F. amplification. R.C., C.C. and transformer couplings. R.F. amplification. Tuned anode circuit. Use of S.G. valve. Tuned transformer coupling. Tuned grid circuit. Back coupling and decoupling. |          |
| 2. | The superheterodyne principle. Theoretical circuit; objections to simple circuit. Modified circuit. C.W. and R.T. reception. Miscellaneous features and superhet. Frequency changers; detector type and multiple valve type. Choice of superersonic frequency.                                     |          |
| 3. | The simple transmitter. Development of valve oscillator. C.W. and I.C.W. Series and parallel feed. Further types of oscillator. Frequency stability. Modulation of C.W. Radio Telephony. Sidebands. Master oscillator and Power amplifier.   |          |
| 4. | General notes on T.1154/R.1155   | 34 hours |

P A R T 'D'

AIRCRAFT ENGINEERING

SECTION I - ENGINES

1. Revision of simple theory
2. Tolerances. Fits and clearances. Back lash in gears. Ball and roller bearings. Gaskets and jointings.
3. Air Cooled Aero-Engines. Poppet valve, in-line and radial engines. Sleeve valve engines. General description and illustration.
4. Liquid Cooled Aero-Engines. Roll Royce types. General description and illustration.
5. Carburation. Brief description of Aero-Engine carburettor. Power and enrichment jets, mixture and altitude controls. Supercharging. Need for limit and control of boost pressure. Rated altitude. Automatic boost control.
6. Magnetos. Polar inductor type. Principles of operation. Contact breaker and distributor. Hand starting magnetos. Impulse starter.
7. Engine Running Precautions. Grades of fuel. Refuelling and general handling. 24 hours

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SECTION II - AIRFRAMES - THEORY

1. Fuselages. Explanation and demonstration of types of construction. Positioning of components.
2. Main Planes and Tail Units. Typical construction, spars, ribs, skin plating, control surfaces, method of attachment to fuselage.
3. Undercarriages. Oleo legs. Hydraulic system. Pneumatic system. Wheels and brakes. Use of trestles. Jacking of aircraft.
4. Fitting of Main Planes and Tail Planes. Setting of control surfaces. Adjustments. 11 hours

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SECTION III - AIRFRAMES - PRACTICAL

1. Simple eye splice
  2. Attachment to metal and plywood
  3. Simple rivetting and simple metal work repairs
  4. Use of rigging instruments
  5. Care of tyres
  6. Cleaning and care of perspex.
  7. Bonding of aircraft components 11 hours
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ADVANCED TRAINING

PART 'D' (Continued)

SECTION IV - AIRCRAFT COMPONENTS

1. Propellers. V.P. principle. Hydraumatic propellers. Feathering, installation, checking.
2. Electrical Equipment. Generators and automatic control of voltage. Lighting and Navigation lamps. Indicators. Cells.
3. Instruments. Engine instruments. Flying and Navigation instruments. Pitot Heads. Compasses. Oxygen installation. Cameras.
4. Switches and Switch Wiring. Sparking plugs, dismantling and testing, cleaning.
5. Fuel Pumps, Coolant Pumps. Practical work should be devoted to demonstration of components or Air Diagrams of same.

14 hours

AIR PUBLICATIONS, PAMPHLETS, AIR DIAGRAMS, ETC.AUTHORISED HOLDINGS FOR A SQUADRON

<u>A.P. No.</u>	<u>Vol.</u>	<u>Part</u>	<u>Title</u>	<u>No. of Copies</u>
121			Regulation for admission to R.A.F. College Cramwell.	1
129 (5th Edn)			The R.A.F. Pilots Flying Manual	1
818A	1		R.A.F. Drill (Elementary)	2
818A	2		R.A.F. Drill (Drill with Arms)	2
1234D	4		Manual of Air Navigation	1
1234	1		Air Navigation	4
1480/Brit			Aircraft Recognition Handbook. British Isles (Including Eire)	1
1480/Amer.			Aircraft Recognition Handbook. American Continent	1
1480/W.Eur.			Aircraft Recognition Handbook. Western Europe.	1
1641C	1		Browning .303 in. Mark II Gun	1
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1896			Scales of Equipment for A.T.C. Squadrons	1
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M.O. Form			Cloud Card for Observers	1

AIR PUBLICATIONS, PAMPHLETS, AIR DIAGRAMS, ETC.

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242	R.A.F. Peace-time Range Courses Rifle and L.M.G. (Relevant extracts to be supplied by Wing H.Q.)	
B.J.C.P.1	British Joint W/T (Morse) Signals Instructions	1
C.C.B.P.3-2		1
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	Inter-Services Aircraft Recognition Journal. Air Clues. (Distributed by Group Headquarters)	6

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	Large Scale Silhouettes of each type of Aircraft in current R.A.F. List.	1 each
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